#### A

### DISSERTATION

OF THE

# Small Pox;

By Daniel Phillips,

At his Commencing

Doctor of Physick

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INTHE

University of Leyden in Holland, in the Year MDCXCVI.

Translated by T. E.

J. Nutt, near Stationers-Hall,

a. 2633.

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# DISSERTATION

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London Printed, and Sold by F. Nurs, new Stationers-Hall,

# ViRO

Natalium Splendore, Morum Suavitate Virtutis amore, Celeberrimo

# Gulielmo Penn

Armigero, Penfilvaniæ Gubernatori, amicorum optimo:

I R O

Non minus ingenii singulari acumine, quam in arte sua mira felicitate, admodum conspicuo,

# Thomæ Lower

Medico Londinensi,

Hunc Lucubrationum suarum sætum primogenitum, Benesiciorum in se Collatorum memor, ea, quâ decet, submissione

D. D. D. Q.

AUCTOR.

#### PRÆFATIO.

Um inter arcana natura vario-larum Natura din latnisse videatur, de hujusce morbi ætiologia quasdam cogitationes proferre non inutile æstimavi, non tam quod credam eas undiquaque probatum iri, quam ut corum animos exftimulem, qui genium meo fæliciorem, ad hoc opus fatis imperfecte relictum, limatius subactiusque præstandum, adepti sunt. Nullus ta-men quam proponam Hypothesin, mei unius cerebri prolem, omni patrono carentem, in lucem pro-dire existimet. Cum me nonnihil lucis a Franciscio de le Boe Sylvio, Willisio, Sydenhamio, quorum verbis æque ac opinionibus usus fui quibusdam in locis, fænerasse nou diffitear. Non illis affentire posfum, qui intra angustos Europæ cancellos

### The PREFACE.

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REFACIO

W Hereas the Nature of the Small Pox may seem to have lain hid a long time among the Secrets of Nature, I have thought it may not be unifoful to publish fome Thoughts of the Atiology of this Difease: Not so much that I believe they will be every where approved of, as that I may excite some of a more fruitful Genius to perform this Work, left imperfect enough, more exactly and compleatly. Yes les none think the Hypothesis, which I shall propose, the Off-spring of my own Brain, or to come forth without any Patron; feeing I confess I have borrowed some Light from Francis Sylvius de le Boe, Willis, and Sydenham, whose Words, as well as Opinions, I have used in some places. I cannot assent to those, who confine this Difease within the narrow Limits of Europe; whose Opinion,

#### PRÆFACIO.

cancellos hunc affectum coercent, quorum sententiam Musæolum nimis redolentem, peregrinantium observationes falsam sictamque omnino demonstrant. Hisce enim meis oculis Africanum quendam pustulis variolosis obsessum, in Guinea septentrionali, ubi pro aliquot menfes degeram, confpexi. Quamvis autem de lue venerea scribere non susceperim, quandoquidem tamen cum variolis propter exanthemata habeat aliquam affinitatem, eam quoque in Guinea non folum epidemice desævire observabo, sed etiam herbis specificis, fine ullo evacuantium genere, curari: quod Mercator fide dignus, qui istas regiones per multos menses hoc mor-bo laborasse, tandem ad incitas redactum ac a Chyrurgis Europæis pro deplorato habitum, Nigritarum quendam remedia contra hoc malum probe callentem accersiri jussisse, & ejus auxilio unicis herbarum foliis & radicibus, fine Emeticis

#### The PREFACE.

Opinion, Savouring too much of the Closet, is demonstrated to be Erroneous and Immaginary by the Observations of Travellers. For I my self have feen an African full of the Small Pox in North Guiny, where I lived some Months. And though I have not undertaken to write of the Venereal Distemper, yet in as much as it bath some affinity with the Small Pox, on the account of its breakings out, I shall observe, that it is not only Epidemical in Guiney, but is also cured by Specifick Herbs, without any fort of Evacuation: Which a Merchant, who was a Person of Credit, and had dwelt many Years in those parts, inform'd me of; and that I might be induced the more readily to believe him, he said, He had had that Disease himself for many Months; and at length, being reduced to great Straights, and left off as incurable by the European Chyrurgeons, he ordered a certain Negro, who had good Skill in Remedies against this Disease, to be sent for

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#### PRÆFASIO.

ticis, Catharticis, Sudoriferis, vel Mercurialibus pristinam sanitatem recuperasse. Illum vero hac lue pessime laborasse à consociis passim accepi, atque illius confessioni Authoritatem conciliabant stigmata faciei ejus inusta. Denique hoc unicum ab hujus ævi obtrectatoribus, qui nihil nifi quod ipsi faciunt, rectum putant, vehementer postulo, nempe ut priusquam hanc lucubratiunculam ore maligno lacerent, alteram a Phænomenis non minus abludentem, fed Rationi & Experientiæ congruentio-. rem, taloque firmiori innixam, Hypothelin adferant. Torine at the of ;

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lengtski for many Months anoth, bairgive, acid to men

ropelm Givinigeons, he or level a constant November had group as the medics agrees this Disches to be filled

#### The PREFACE.

for, and by his assistance recovered his former Health, only by the use of the Leaves and Roots of Herbs, without any Emeticks, Catharticks, Sudorificks, or Mercurials. And I have in divers places heard, by his Acquaintance, that he was very bad of this Distemper; and the marks in his Face confirmed his Confession. Lastly, This one thing I earnestly desire of the Detracters of this Age, who think nothing well done but what they themselves do, that before they malign this Lucubration of mine, they would give another Hypothesis no less diffentaneous to the Phenomena, but more conform to Reason and Experience, and built upon a firmer Basis.

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# Disputatio Medica

Inaguralis de

# VARIOLIS.

I.

Authores variolarum nomine defignatur, tam raro fit mentio, &
tam jejuna descriptio, ut non paucis dubium fuerit, an hoc malum,
quod nunc ubique terrarum vel
fiporadice vel epidemice desævit,
priscis temporibus innotuerit. Cum
vero natalium morbi cognitio, qua
sc: hominum ætate corpora primum invasit; ad naturam ejus explicandam, methodumve medendi
rite instituendam, parum vel nihil
faciat,

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# DISSERTATION OF THE

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ihil iat, THE ancient Physical Writers do
fo seldom mention, and so sparingly describe the Disease, which goes
under the Name of the Small-Pox,
amongst Authors, that it may be a
doubt to many, whether this Distemper
which now rages more or less in all
Nations, was known in former Ages.
But whereas the knowledge of the Original of the Disease, viz. in what
Age it first invaded Man, can contribute little or nothing towards the
explaining its Nature, or teaching a
right method of its Cure; I purposely
omit

faciat, sententias Medicorum inter se oppositorum de huius morbi anti-

quitate, consulto omittam.

II. Hisce prælibatis, paucula quædam nominis Ætymologiam spedantia, breviter præmittere non inutile judicavimus. Hujus nomen vel a variando, nam cutis est varia in hoc morbo, denominationem accepit: vel quod magis nobis arridet, a varis quoniam vari adinster in Corporis superficiè extuberant Variolæ. A Plinio papularum, a Græcis Egaronudror vacabulo designantur.

pergo ad hujus morbi Definionem fen potius Descriptionem, atque ut nobis videtur, describi potest in hune modum, quod sit Sanguinis Coagulatio, cum nimia ejus Effervescentia ut plurimum conjuncta, Pustulis modo dicretis, modo confluentibus, quæ in cuti vera pariter ac cuticula proveniunt, pro ratione Acidi Stomacalis connati, plus mi-

omit the different Opinions of Physitians, among themselves, concerning the An-

tiquity of this Disease.

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11. These things considered, I think it may not be amis briefly to premise some few things concerning its Etimology. The Latin Word Variolæ, is either a variando, from varying; for the Skin is altered in this Disease: Or, which seems better to us, a varis, from Warts; because the Variolæ, or Small Pox, break out like Warts on the Superficies of the Body. By Pliny it is call Papulæ, Wheals; and by the Greeks Exardinala, or Efflorescences.

Nord, I proceed to the Definition, or rather Description of this Disease; and as it seems to me, it may be described after this manner, Viz. That it is a Coagulation of the Blood, for the most part accompanied with too great an Effervescence, with Pustles, sometimes separate, sometimes confluent, which break forth in the true as well as skarf Skin, according to the state of the connate Acid

nus massam sanguineam coagulantis, magnoque aliorum Symptomatum apparatu, quibus œconomia animalis (velut in Febribus solenne

est) varie preturbatur.

IV. Affectionis hujus differentiæ plures occurunt. Prima juxta Febris concomitantis naturam & morem, hæc enim benignæ intermittentisque ritu, fine ulla Symptomatum vehementia, illa verò malignæ petechiis notatæ ritu, & cum Maxima aliorum horrendorum Symptomatum farragine stipata, varioloso Secundo respectu Pustuincumbit. larum, notabile discrimen exurgit, quippe hæ interdum funt distincta, regulares, acuminatæ, albæ, & circulo cinguntur rubro, ac fine gravi naturæ luctu erumpunt. Aliquando vero funt cohærentes, confluentes, depresse, lividæ, violaceæ, cum maculis purpureis vel eruptione miliari interpunctæ, lividoque mar-gine oblidentur. Tertio ratione varii ejus stadii, hoc enim Pustularum Adid

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Acid of the Stomach, soagulating the Mass of Blood, more or less, with a great appearance of other Symptoms, by which the animal Oeconomy (as is usual in Feavers) is variously disturbed.

IV. There occur many differences of this Affection. First, according to the nature and manner of the Feaver accompanying it: For sometimes it invades the Sick like a benign Intermittent Feaver, without any violent Symptom; ether whiles after the manner of a Malignant, mark'd with spots, it's accompanied with a great many other dreadful Symptoms. Secondly, there arises a notable difference with respect to the Pustules; for sometimes they are distinct, regular, acuminated, white, and compast'd about with a red Circle, and break out without any great disturbance of Nature. Sometimes they are coherent, running together, or fluxed, flat, livid, blem, with purle Spots, and have Miliar, or fmall Erupions between them, and are compass'd about with a blew Margin. Thirdly, On the account of its various Stages

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larum cohorte affociatur, illud autem fine istarum vestigiis omnio peragitur: & quoad Symptomata, stadium unum ab altero, non minus quam morbi specie diversi, discriminatur. Hisce metis a se invicem longe remotis, a Medico non apprime pensiculatis, ægre quis possie veram hujus morbi ideam, vel methodum therapeuticam rationi comprobatam, juxta diversos stadiorum gresius stabilire.

V. Hisce præmiss, operæ pre-tium est, ut stadiorum numerum & quantum temporis, in unoquoque discretarum stadio (quæ confluentium ubique norma habenda est) juxta naturæ legem impenditur; & quot mutationes Pustulæ jugitur subire soleant, observemus. Quoad primum, tria variolarum stadia observatu dignilima occur runt, nempe Apparatus, Augmen-be S viz. tur quispiam me nullum de statu habuisse

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or Periods; for one is accompanied with a multitude of Pustules, another is perform'd without the least appearance of them: And as to the Symptoms, one Period or Stage is diffinguished from another, no tess than Diseases of a different Species; if these bounds, far distant from one another, are not well confidered by the Physitian, he can bardly form a true Idea of this Disease, or propose a rational method of Cure, according to the divers progresses of its Periods or Stages.

V. These things being premised, it is worth our while to observe the number of its Stages, and hore much time is spent, according to the Law of nda Nature, in every Stage of the separate ndi- Pox, (which is every where to be acula counted the Rule of the Confluent, or nus. Flaxing Pox) and how many Changes be Pustules are wont to undergo. As our the first, there are Three Stages of the Small Pox worth our Observation, viz. The Appearance, Increase, and Drying. Nor let any one wonder, uisse that

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habuisse Sermonem, nam cuivis accurate perpendenti, illum ab augmento ac exarescentia discriminare admodum difficile erit, quonium simul ac in pedibus atque manibus Pustulæ ad summanı molem evectæ sunt, in facie exarescere in-

cipinnt. and many thanhab we.

VI. Quoad stadiorum duration nem, Apparatus interpunctarum quatriduo, nisi Regimine nimis calido, vel Medicamentis perperam adhibitis, magnum Naturæ opus interturbetur, absolvitur. Et apparatus indiferetarum totum illud tempus fub fe continet, quod a primo morbi ingressu, absumitur, usque dum plena Pustularum eruptio inchoatur. Exactis hisce quatuor ægrotationis primis diebus, augmentatio exordium capit, & interpolito quinque dierum fpacio peragitur; nec Pustulæ fæliciter sublident, priusquam ad summum fastigium evehuntur, quæ ad nonum usque diem, hujus stadii novissimum, continuo 110.02

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that I say nothing of the state or highth of this Disease; for whoever accurately considers the matter, will find it very difficult to distinguish it from the Increase and Drying away of the Pox; beeause as soon as the Pustules are at their heighth in the Hands and Feet, they begin to dry in the Face.

VI. As to the duration of the Stages or Periods; The appearance of the distinct Pox is performed in four days, unless the great Work of Nature is interrupted by too hot a Government, or by Medicines unduly applied. And the appearance of the indistinct or fluxing Pox, continues all that time, which is taken up from the first invasion of the Disease, until the full eruption of the Pustules is begun. These four first days of the Sickness being over, the Increase begins, and is finished in the space of five days: Nor do the Pustules num fall successfully off before they are at the num heighth, which ought to increase by a num, continual conflux of congealed Filth, until

continuo colluviei congelatæ appulsi augescere debent. Quinque augmentationis diebus jam elapsis, ultimum stadium, quod quatriduo consummatur, subsequitur; in quo fixa quadam lege tumores undiquaque recedunt, Exanthemata scabie obducuntur, Crustulæque exsicatæ defluent.

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WILL Tanta est inter medicina Proceres, qui causis variolarum investigandis insudarunt, diversitas & ratio quare plerique homines, femel in vita buic morbo fint obnoxii tam varia adfertur, nt omnes horum Hypotheses recensere, non folum lectoribus inutile, fed tædiofum videretur; Nonnullorum tamen opiniones paucis hic loci depingam. Avicenna Medicus coevorum facile Princeps reliquique Arabes prope omnes, ejus vestigia prementes, inipuritatem fanguinis materni, quo Infans in utero nutritur, causam hujus mali proegumenam esse statuerunt; huic autem Hypothefi licet Expeuntil the ninth and last day of this Stage. Five days of increase being past, the last Stage follows, which es finished in four days; in which, by a certain fixt Law, the Humques every where depart, the Pox is scabb'd over, and the Crusts, being dried, fall off.

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VII. There is so great a difference among the chiefest of Physitians, toba have laboured to find out the Cause of the Small Pox; and they give so various Reasons why most Men, once in their Life, are obnoxious to this Disease, that it would be tedious, as well as unprofigable for the Readers, to recite all their Hypotheses. Tet I will here give, in short, the Opinions of Some of them. Avicen, the Prince of Physitians, that were his Contemporaries, and almost all the rest of the Arabians treading in his Steps, assigned the imparity of the Mother's Blood, with which the Infant is nourished in the Womb, as the Proegumenial or inwardly moving Cause of this Evil. This Hypothefis,

Experientia quotidiana, cultro anatomico Judice, refragetur, quam plurimos tamen haud inferioris notæ Asseclas in hunc usque diem obtimuit. Hanc Arabum sententiam Argumentis non levibus refellerunt Gentilis, & Mercurialis. Hujus autem Hypothesis vice, aliam variolas, fc. Pro morbo Hæreditario habentes constituerunt, quæ non multo firmiori basi quam prior jam eversa, suffulcitur, & a Dan: Sennerto radicitus destruitur. Fernelius hoc malum à Caufa quadam Cælesti in actum deduci statuit, quæ Opinio à Mercuriali luculenter refutatur. Alii à Veneno, alii à Causis Occultis, exanthematum natales de-Quam fint arduæ & abstrusæ, quam spissa caligine obruantur Variolarum Caufæ, ex præmissis facillime colligitur. Si igitur in re ipsius Orci tenebris haud minus obscura Sententia nostra ab aliis differat non usque adeo mirum videri debet.

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thesis, tho' daily Experience contradicts it, the Anatomical Knife being Judge, hath yet obtained many Followers, of no small Note, unto this very day. This Opinion of the Arabians has been confuted by Gentilis, and Mercurialis. by no light Arguments. Instead of this Hypothesis they established another, viz. That the Small Pox is an Hereditary Disease, which was establish'd on a Foundation not much firmer than the former; is now overthrown, and utterly destroyed by Daniel Sennertus. Fernelius assigns this Evil to be brought into act by a certain Coelestial Cause; which Opinion is clearly Refuted by Mercurialis. Others deduce the Original of the Small Pox from Poyfon; others from Occult Causes. How hard and abstruse, and with what thick Darkness, the Causes of the Small Pox are overwhelm'd, may eafily be collected from the Premises. If therefore, on a Subject so very obscure, my Opinion varies from others, it ought not to be look'd upon as strange. VIII.

VIII. Hoc modo brevitur recensitis, præcipuis Authorum tum Veterum tuni Recentiorum Opinionibus, tandem restat Sententiam feu potius in re tam atra caligine obvoluta Conjecturam nostram pro-Circa Variolarum Causas ponere. in genere hæc tria Considerationi nostræ occurrent; primo sc. quæ fit earum Cansa continens, & quibus in locis minera ejus subsistat atque niduletur, priusquam in actum deducatur. Secundo quæ sit Causa istius Procatarctica quibus nimirum de Causis, semina hujus affectus latentia, modo citius modo tardius in ejus ideam disponuntur. Tertio qui sit modus fiendi, quales nempe alterationes Sanguini per venas refluo inducantur.

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IX. Quod ad primum attinet, opinari fas sit, Causam hujusce morbi continentem esse Acidum connatum in coagulando procax. Acidum autem hic peccare infortunia Variolas à tergo sequentia fidem faciunt, cujus-

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VIII. Having thus in short recited the chief Opinions of Authors, as well Ancient as Modern; it remains, that I offer my Opinion, or rather Conjecture, in a thing wrapt up in so great Darkness. Concerning the Causes of the Small Pox in general, these Three things occur to our Consideration. First, What is its containing Cause, and in what places its Mineral subsists, and nests its self, before it is brought forth into Act. Secondly, What is its Procatartick, or outwardly moving C.ufe, viz. From what Causes the latent Seeds of this affection are disposed into act, sometimes sooner, sometimes later. Thirdly, What is the manner of its Production, viz. What alterations the Blood suffers, circulating through the Veins.

IX. As to the first, we may suppose the continent Cause of this Disease
to be a connate Acid, apt to coagulate
That an Acid is here in the fault, the
Missortunes following the Small Pox
demonstrate, such as spreading UlB 2 cers,

cujusmodi sunt ulcera late serpentia, ossium caries, & soveæ illæ quibus facies nimis sæpe sulcatur, & plurima id genus alia, quibus Medicorum monumenta plena sunt; huic Opinioni Fra. de le boe Sylvius facem accendit, his verbis (p. mihi 619.) Arbitrati sumus vitium Variolas pro-

ducens consistere in Acido.

X. Hac radice paucis acta, originalem hujus acidi scatebram, & propriam commorationis fedem, jam proxime detegere conabimur. Si quid nostra mediocritas judicando valet, acidum hoc connatum esse, vim coagulandi summam obtinere, ac in ventriculo hospitari, autumamus. Succum Acidum juxta Naturæ legem in stomacho nidulari, & fine ejus axilio recte Chilificationis munus, ut par est, præstare non posse, Testimoniis gravissimis Medicinæ lumina palam faciunt. Nec quis hoc facile inficias ibit, qui fætus animalium, folo lacte nutritorum, cultro anatomico exposuit. Vel

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cers, rottenness of the Bones, and the Pits, with which the Face is too often furrowed, and many such like, of which the Books of Physicians are full. To this Opinion Fran. Sylvius de la Boe hath given light, (by saying, in page 619. of his Works) I think the fault, producing the Small Pox, consists in an Acid.

X. This Foundation being briefly laid, I shall in the next place endeavour to discover the original Sourse, and proper Residence of this Acid. And if my weak Judoment may be admitted to decide this matter, I conceive this Acid is connate, has a great Coagulating Power, and doth lodge in the Stomach: And that there is an Acid Juice naturally in the Stomach, and that the business of Chylification cannot be done as it ought without its help, the lights of Physick make appear by weighty Testimonies. Neither will any one easily deny this, who bath dissected the Fatus of Animals, nourished only with Milk: And it appears manifestly, even to the meanest of the People, that notanois

Vel fæci enim plebis manifeste liquet, vitulorum ftomachos Acidi coaguli ditiffimos ese, quo sæpius ad lac Coagulandum, caseosque inde confisciendos utuntur Ruricolæ. Nec tantum vituli, sed & plurima alia Animalia reperiuntur, quæ simili gaudent Coagulo, ex quorum numero sunt Fœtus Humani, quod etiam (ex observatione Clarissimi Harvei in Exercit. p. 55. & 57. de Generatione Animalium) fensibus patet. Cum lac & Sanguis ex eifdem constent Principiis, licet confistentia aliquantum differant, ipfiffinis tamen mutationibus, quibus lac Sanguis est obnoxius. Quare nequaquam à ratione alienum nobis videtur, cum nostro Williso affirmare, cruorem in Variolis coagulari, & nullus dubito, quin si quispiam ferio atque ad amussim penfitaverit encheirisin, qua lacti coagulatio inducitur, atque quibus modis inhibetur aut tollitur, habiturus fit methodum medendi magis rationalem

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that the stomachs of Calves abound with an Acid Coagulum, which the Country People often use to turn their Milk, and thence make Cheese of it. And there are not only Calves, but many other Animals found, who have the like Coagulum; amongst which are the Humane Fætus, which also appears (from the observation of the famous Harvey, in the 55th and 57th Exercitation of the Generation of Animals) even to the Senses. Now whereas Milk and Blood confifts of the same Principles, altho' they somewhat differ in Confiftence; yet Blood is obnoxious to the same Changes as Milk. Wherefore it seems to me not at all unreasonable to affirm, with our Country-man Willis, that the Blood is coagulated in the Small Pox, And I doubt not, but if any one will seriously and exactly consider the managery, whereby Milk is coagulated, and by what means its Coagulation is hindered, or taken away, he will have a more rational and successful method of curing the Small Pox than has

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tionalem fælicioremque, quam quivis adhuc propalaverit. Hanc igitur operam in commatis inferioribus, calamo fusiori pro tenuitate nostra explicare aggrediemur.

XI. Causæ procatarcticæ & Occasiones evidentes, quæ Acidum hoc consopitum, aliifque corpusculis prius obvolutum, irritandi & in actum deducendi ansam sæpenumero præbent, sunt alterationes quævis violentæ, quæ vel Acidum in corpore exagitant vel efferatos Sanguini & humoribus inquilinis motus accerfunt; in hunc censum præcipue veniunt aer, immodica vini ingurgitatio, nimius Corporis motus, & animi pathemata. Quoad primum fi aer vel particulis Acidis plenissime solis nimium exagitetur, hinc non potest sieri quin acetosa semina in aeris sinu delitescentia, inter spirandum per cruorem diffundantur, & circulationis ope congeneribus, Acidis in stomacho alibique hospitantibus,

has been hitherto published. I shall therefore undertake to explain this matter more largely in the following Sections.

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XI. The procatarctick Causes, and evident Occasions, which often irritate this Acid, and bring it into act, which was before laid asleep, and wrap'd up in other Particles, are some violent alterations, which either exagitate the Acid in the Body, or raise violent motions in the Blood, and Humours within: Of this fort are the Air, immoderate drinking of Wine, too much motion of the Body, and the passions of the Mind. As to the first, If the Air be either fill'd and infected with Acid Particles, or too much exagitated by the Beams of the Sun; bence it cannot be but the sowre Seeds lying hid in the Pores of the Air, are by breathing diffused through the Blood, and by the means of the Circulation assimulated to the like Acids lodging in the stomach, and other places; whence this Effect is sometimes popular, and invades tantibus, assimilentur, unde hic assectus interdum est epidemicus, ac per integros simul vicos & urbes grassatur ut vix unus nisi prius hoc morbo laboravitur, ejus tyrannidem essugiat.

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XII. Ab Immodica vini ingurgitatione hic morbus interdum excitatur, hujus enim Spiritibus materies Acida jamdudum in stomacho consopita impetuose commovetur, & commotione continuata, per regiam viam Sanguini convehitur. Hinc quidam in Variolas inciderunt, licet nemo tota illa Regione ægrotaverit, atque ab Exercitiis vehementioribus Idea hujus morbi quandoque exuscitatur : Nam hisce Acidæ Portiunculæ ad coagulandum aptissimæ incitantur, qua incitatione, Corpufcula motus expertià, commoventur, & in actum deducuntur. Nec prætereunda funt animi pathemata, quæ, suum quoque fymbolum ad malum commune conferunt, epjusmodi funt Terror, Metus, aut quæcunque aliæ graviores Animi invades at once whole Villages and Cities; and scarce any one, but he that has had it before, escapes its Ty-

ranny.

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XII. This Disease is sometimes excited by the inordinate drinking of Wine; for by its Spirits the Acid Matter, which for a long time lay asleep in the Stomach, is impetuously moved, and by continual motion is carried by the High Way into the Blood. Hence some fall sick of the Small Pox, tho no one has had it in the whole Country. The Idea of this Disease is also sometimes awakened by vehement Exercises: For by these the Acid Particles, apt to coagulate, are stirr'd up; by which Incitation the Corpuscles, unapt for motion, are moved, and brought into act. Neither are the Passions of the Mind to be pass'd by, which contribute also to the common Evil; of which fort are Terror, Fear, or any other great Disturbances of the Mind; because by these the Animal Spirits are hindered from performing

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Animi Perturbationes, quippe his Spiritus Animales, à solitis functionum suarum muniis obeundis, inhibentur, cujus ratione cruor, Elementis Activis orbatus, à debita Crasi & Constitutione dessectit, unde Particulæ Acidæ variæ, à Spirituosis reliquisque prius subjugatæ, sui juris jam sactæ, hujus Morbi ty-

pum producunt.

XIII. Causa Continente & Procatarctica (quantum nos Variolarum Causas Conjectura affequi valemus) jam depicta, ad modum agendi nunc Acedimus, quibus sc. motibus & purpurei torrentis alteratione, Idea hujus morbi exuscitetur. Nempe Acidum hoc in coagulando procacissimum, in debita Naturæ minera nidulatur, ab aliis portionibus crassioribus, à motu abhorrentibus, illaqueatur, & muneri Concoctionis quadantenus opitulatur, donec à Caufis modo citatis, hæc acetolitas lacessitur, lacessita à Particulis quibus fociali jugo prius implicabatur, se

forming their wonted Offices; upon which account the Blood being deprived of its active Elements, is changed from its due Crasis and Constitution; from whence the various Acid Particles before subjugated by the Spirituous, and others, being now at liberty, produce the Figure of this Di-

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XIII. The Continent and Procatarctick Canse being describ'd (as far as I can by Conjecture reach the Canfes of the Small Pox) I come now to the manner of its Acting, viz. by what Motions and Alterations of the Purple Stream, the Idea of this Disease is firr'd up. And verily this Acid, most apt to coagulate, resting it self in its proper Mine of Nature, is intangled by other grosser Particles, unapt for motion, and does fome way help the office of Concoction, until this Acidity is stirr'd up by the foxesaid Causes; and being irritated, it endeavours in the tumult to difintangle it felf from the Particles with

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se extricare mota seditione enititur. Unde ægretudines plus minus immanes, pro Acidi indole, necessario excitantur. Hac feditione continuata fieri non potest, quin Corpuscula spissiora jugi exagitatione subtiliora reddantur, & ab invicem diffocientur. Hoc ritu reserata mixti compage, Acida Corpufcula in ejus sinu delitescentia, qua data via, velut carcere effracto, exiliunt, dein effrænata luxuriant, ac Tragædias, in subjecto ubi diversantur, varias inducunt. Quædam tunicæ nerveæ ventriculi pertinacius adhærescunt, hinc diathesis emetica, non facile medicanda, inducitur, licet nulla vitiofa humorum faburra ventriculus oneretur; quædam per Pylorum à Fibris Stomachi convulfive irritatis ejiciuntur, exinde spasmo duodeno ejusque ductibus communicato, pancreaticis fuccis fibi ipsis parum diffimilibus confunduntur. Junctis ad hunc modum viribus omnes humores, ab iis

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with which it was before intangled From whence Sicknesses are necessarily excited more or less cruel, according to the disposition of the Acid. This discord being continued, it cannot be but the groffer Particles are subtilized by continual Agitation, and separated from one another. The Contexture of the mixt being thus unlock'd, the Acid Corpufeles, that lay hid therein, rush out every way, as from a Prison; then, being unbridled, they exceed, and act divers Tragedies in the Subject where they lodge. Some adhere fast to the Nervous Coat of the Stomach; hence a disposition to Vomit is induced, not easily to be cured, altho' the Stomach be not burthened with any load of vicious Humours: Some are cast out through the Pylorus, by the convulsion of the Fibers of the Stomach; then the Convulsion being communicated to the Duodenum, and its ducts, they are confounded with the fimilar Pancreatick Juices. After this manner joyning

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iis alienos, in pancreate & partibus proximè adjacentibus stabulantes, adoriuntur. Unde orgasini quam maximi, quorum ratione dolores acutissimi in regione lumborum suscitantur.

XIV. Quædam operibus jam nunc assignatis non occupata tenentur, mediantibus autem venarum Ostiolis in Stomachum, & Lactearum in Fistulam intestinalem, dehiscentibus, in Massam Sanguineam protruduntur; hæc ut primum per cruorem diffusa, ejus statum perturbant, atque coagulationem concreti Lactis adinstar ab infuso Acido eidem conciliant, qua de casa minus prompte in vasis Sanguis circulatur; inde Sanguinis motum restaurandi gratia, Febris ut accedat perquam necessa est; quoniam mediante hac Natura totis viribus quibus pollet, Portiunculas concretas è gremio suo excutere molitur, hinc Symptomata fumme varia excitantur, prout in has vel illas partes motu agitatæ imjoyning forces, they set upon all the Humors different from them in the Pancreas, and parts adjacent: Whence arise very great Commotions, by means whereof extream Pains are excited in

the Region of the Loyns.

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XIV. Some Particles not occupied in the business, but now assigned, are detained; but by means of the little Mouths, of the Veins opening into the Stomach, and of the Lacteals into the Guts, are thrust forth into the Mass of Blood; these, as soon as they are diffused, though the Blood disturb its Constitution, and coagulate it, as Milk is curdled by an infus'd Acid; for which cause the Blood does not so readily circulate in the Vessels: And thence a Feaver is very necessary, to restore the motion of the Blood; for by this means Nature, with all the strength she has, endeavours to expel the concreted Particles: Hence many various Symptoms are excited, as they are agitated by motion, and driven into these or the other parts. Some Portions

Quædam Portiones ion. impelluntur. cruoris congelatæ interius in Cordis carr sinus delatæ illic stagnare aptæ exist. Hea unt, hinc Lypothymiæ, &c. quædam when exterius in habitum Corporis elini. shru nantur, inde maculæ Pulicum morfii from primo æmulæ, quæ continuo Particu Flea larum congelatarum accessu in horas accrescunt, donec omnes Particula unticongelatæ ex Sanguinis sinu exturbentur, exturbatæ efferatiores siant thru
& Inflammationes producunt, qua and
tandem in Abscessus & Vomicas desinunt, unde Febris ultimo Stadio revirescit, & Præsium de novo instauthe
rat. Quædam prosapiæ ejustem at the majori subtilitate gaudentes, inter-kin cedente Arteria Corotide, caput He petunt: ubi Spiritibus fuffufæ, in Ar partes Membranofas modo has mo- Spi do illas retorquentur, donec medi-bra antibus tuberculis, Natura victrice tim in Corporis ambitum amandentur, the unde capitis dolores, Convulsiones, sen Vigiliæ, plurimaque alia hujus fa- wh rinæ Symptomata, ortum ducunt. W X V. kin iones tions of the congealed Blood being ords carried inward into the Sinus of the xist. Heart, are apt to stagnate there; from whence are Swoonings, &c. Some are linii thrust out into the habit of the Body; orsi from whence are Spots at sirst like ticu. Flea-bitings, which increase continually tores by the access of congealed Particles, cultivatil all the congealed Particles are cult until all the congealed Particles are cture thrust out of the Blood; and being frant thrust out, they become more wild, que and produce Inflamations, which at desidength end in Abscesses and Impostre humes; from whence the Feaver in tauthe last stage is renewed, and begins n at the Battle afresh. Some of the same ter-kind, but being more subtile, attack the aput Head, by the mediation of the Soporal Artery; where being poured into the mo. Spirits, they are thrown apon the Memedia branus Parts; sometimes these, sometimes times others; until Nature by means of the Pustules being Conqueror, they are sent away into the surface of the Body; whence Pains of the Head, Convulsions, Watchings, and other Symptoms of this bind take their rise. V. kind, take their rife.

XV. Nullam non Corporis par. XV tem Symptomata, Variolis super- le S venientia, subinde occupant, & art quoad stadium atque speciem im tage mane quantum à se invicem dissi rom-dent. Primum enim Morbi insulta ult of ubi primum Humor acetosus, ur-dum gente Febri, per totam-Corporis egin.
Machinam moveri incipit, algor, Machinam moveri incipit, algor, Machinam moveri, oscitatio, pandicu-ess, latio exurgunt. Quibus mox suc-rise cedunt, calor modo Intensus modo ime:

Remission Ægrindo Nausea Vo-ess. Remissior, Ægritudo, Nausea, Vo- 1efs, mitus, Syncope, Deliria, motus Con- ing vulsivi, & quotquot sub Febrium bev Classe comprehendi solent Symp- unde Præter hæc generalia hefe Phænomena quibus pleræque Febris nost Stipantur, funt quædam quasi pa- gre thognomonia, que hunc Affectum lift à cæteris congeneribus discriminant. he Nempe dolor vel terebrans vel gravativus, capitis arcem lumborumque regionem occupans, qui fere no folus in Febre continua Variolas Pos esse præ foribus denunciat. Præ- he fertim

Dar. XV. The Symptoms coming upon per he Small Pox presently possess every & art of the Body; and as to their im tage and Form, they differ very much illi rom one another; for at the first inultu alt of the Disease, when first the sowre ur- Humor, by the violence of the Feaver, oris egins to be moved through the whole gor, Machin of the Body, coldness, stifficulties, horror, gaping, and stretching suc. rife. After which comes heat, someodo imes Intense, sometimes Remiss, Sick-Vo. ess, Loathing, Vomiting, Swooning, Raon sing, Convulsive Motions, and whatium Gever Symptoms use to be comprehended np- under the Class of other Feavers. Besides alia hese general Phanomena, with which oris nost Feavers are accompanied, there pa- resome as it were peculiar Signs, which um listinguish this Affection from others of ant. he like kind. As a piercing, or heavy gra- ain, seizing the Head, and Region m- f the Loyns, which doth almost alone cere n a continual Feaver declare the Small plas Pox to be at the door: Especially if re- he Sick has never had it before, and tim

fertim si ægrotans nunquam antea it istis correptus fuerit, si quoque in iden vicinia sint, vel epidemice tunc tempre poris deseviant. Hunc statim excide piunt Facies rubicunda & tumida, de sindor profusus, quod de Infantibus sindictum volo: Anxietas, Torpor infignis, Corporis gravitas, Nausea, lly, Vomituritio, Eluvus alvi, paravuis sindictum volo: Vomituritio, Fluxus alvi, paroxyif mi Epilepsiæ persimiles, jactatio in eep quieta, lachrimæ involuntariæ, punctionis sensus omnes fere Corporis partes infestans, & denique Uring " Protei æmula, vix aut ne vix sub d t eadem specie conspicua, siquiden 10 nunc pallida & tenuis, nunc fubtur bita & contentis faturata, alias fa- 07/ X norum Urinæ similis, & sic porro.

XVI. Sub primo discretarum in gressu, Febris Intermittentis, cum moscitatione & pandiculatione ingruentis, typum plane induit, dein do lea lor capitis gravitivus, ut ejus onus dy diu erectum Corpus vix sustinere rig queat, lumbago nulla vel admonum, dan

levis,

ntea it is in the Neighbourhood, or rages. e in idemically at the same time. This tem- presently follow'd by a red and tuexcited Face, with Sleepiness in Infants, nida, d profuse Sweating in the Adult; ibus en Anxiety, great Dulness, heaviiltis is of the Body, Loathing, inclinar in n to Vomiting, Loofeness of the usea, ly, Fits very like the Falling Sickxyif. Is, unquiet Tossings, involuntary
in eeping, a kind of Pricking infestpun g almost all the parts of the Body:
ports of ty, variable Urine, hardly to be
lring in under the same form, now pale fub d thin, now somewhat troubled, and iden l of gross Contents; otherwhiles like oture Vrine of those in Health, and s fa- on.

o. XVI. At the first Invasion of the n in parate Pox, it plainly puts on the cun m of an Intermitting Feaver, with grue mning and stretching; then there is do heavy pain of the Head, so that the onus dy can scarce long sustain its weight inere right, little or no pain of the Loyns, num, lness of all the Senses, unaptness to undergo

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levis omnium fenfuum habetudo, ad pristinos labores obeundos inhabilitas, inappetentia, fomnus inquietus pulsus folito citation, & die ab Invalione quarto erumpt hæc Vario larum species; nisi ex infausto ali quo accidente, in regimine vel Me dicamentis perperam propinatis m Crisis interturbetur.

XVII. Quamprimum Maculæ act. lik puncturis haud absimiles primo & N Eruptionis die se produnt, facie of imprimis infidentes, vel etiam coll or & pectori, dein in universo Copore on à πυρεξία Integra ægri discretis labo sep rantes fruuntur, cunctaque malorum and Symptomatum agnina, in hoc Sta not dio minime redintegranda, penitu mh fugantur, ac si nulla valetudine ini not qua excruicitati fuissent, dempt sudore plus solito, & Pustularum excludies grandescentium molestia, qui dan die huius stadii primo pulicus exclusiones prodicitati primo pulicus exclusiones prodicitati primo pulicus exclusiones primo pulicus exclusiones prodicitati primo pulicus exclusiones primo primo pulicus exclusiones primo pri die, hujus stadii primo, pulicus app morsus imitantes, in conspectur Fle veniunt, secundo Paululum seips lat dilatant, & duritiem quandam, ex han amine

o, ac undergo former Labours, want of Apabilipetite, unquiet Sleep, and Pulse quicker
than ordinary; and on the fourth day
from its Invasion, this kind of Pox
ario
breaks out, unless the Crisis be difurb'd by some unluckly accident in
Me ordering the Patient, or by Medicines

natis prongly given.

XVII. As foon as the Spots, not unacti-like the marks made with the points of no fc Needles, appear, viz. in the first day facie of Eruption, begin first on the Face, colle or on the Neck and Breast, and then pore on the whole Body; those sick of the labo separate Pox are free from the Feaver, or and the whole troop of ill Symptoms, stand to be renewed in this stage, are mitted wholly chased away; as if they had e init not been troubled with an ill state of mot Rody, the more than usual Sweat being mpt Body, the more than usual Sweat being arun excepted, and the trouble of the Pustules , qui daily growing greater and greater, they icul appear the first day of this stage like Edun Flea-bitings; on the second they dieipsalate themselves a little, and get some a, ex hardness, resisting the touch when they mine are

amine per tactum adhibito, renietentem obtinent, tertio circa basin auctæ tuberculis exactissime rotundis donantur, quarto in summitate acuminatæ margine cinguntur rubro, quinto in fummam molem evectarum apices albescere incipiunt. Atque in ipsa eruptionis aurora, ab Efflorescentia Morbillofa, Erysipelatosa, & Scarlatina, ex Facili dignoscuntur, hæ enim exanthematum maculæ, figuram quam maxime rotundam, & quandam palpantis digito renitentiam exhibent, quibus duobus Criteriis invicem junctis, haud difficulter ab alio quocunque morbo huic affini difpescuntur.

confluentium in omni hujus mali decursu jure merito censenda sunt norma) prima ultimi stadii die, asperitatem quandam judice digito præfertim in facie obtinent, & Febris ex Pustularum maturatione nonnihil accenditur; secundo acumina scabie

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are felt; on the third, being increased about the Basis, the Pustules are exally round; on the fourth, being sharp on the top, they are compassed about with a red Margin; on the fifth, being increased to the full bigness, the tops begin to look white. And in the very morning of their eruption they are very easily distinguished from the Efflorescences of the Measles, Erysiplas, and Scarlet Feaver; for these spots of the Small Pox have a Figure very round, and a certain resistance to the Finger of him that touches them; by which two Criteria, or Signs joyned together, they are easily distinguished from any other Difeafe a-kin to this.

XVIII. The distinct Pox (which ought to be the Rule of the sluxing in the whole course of this Disease) on the first day of the last stage, begin to feel rough, and the Feaver is a little inkindled from the ripening of the Pustules; on the second, the tops being cover'd with a yellowish scab, begin

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fubflava larvata subsidere incipiunt, & faciei manuuni pedumque intumescentia pedetentim recedit; tertio pure inspissato in scabiem aridam & subslavam undique ipsæ Variolæ commutantur; quarto emorientibus Pustulis, sine ullius mali Symptomatis repullulatione per totum exuvias deponunt, nullasque notas diu ad-

hærentes cuti imprimunt.

XIX. Accidentia cum distinctis communia obtinet & illa Variolarum species, quæ nomine confluentium infignitur, nisi quod Stadia diutius, protendantur, & Symptomata atrocius desæviant omnia, Febris, fc. continua & ardens viget; dolor in capite & lumbis horrendus frangens & plane convultivus urget; nausea & vomitus immanis ventriculum lacessunt, vigiliæ pertinaces, in fomno torrores, jactatio inquieta, fluxus alvi efferatiores fæpius decumbentem infestant, densoque aliorum Symptomatum indies fuccrescentium agmine comitantur:

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to fall, and the swelling of the Face, Hands and Feet, departs by degrees; on the third, the Corruption being thickned, the Pox are every where changed into a dry and yellowish Scab; on the fourth, the Pustules drying; every where fall off, without the return of any ill Symptom, and leave no mark adhering long to the Skin.

XIX. That kind of Pox, which goes by the name of the Fluxing, bath the same accidents in common with the distinct; unless that it extends its Stages longer, and all the Symptoms rage more cruelly, VIZ. there is a continual and burning Feaver; there is a horrid rending, and even convulsive pain in the Head and Loins, and great Loathing and Vomiting troubles the Stomach, long Watchings and Terrors in Sleep, unquiet Tossings, and more cruel Fluxes of the Belly often trouble the Sick, and they are accompanied with a great troop of other Symptoms daily increasing; and the Eruption

nunc quartum diem prævertit, nunc ad quintum sextumve differtur Pu-

stularum eruptio.

XX. Post Pustularum eruptionem Febris uno tenore progreditur, & eodem Symptomatum fatellitio, quibus apparatus, plerumque stipatur, pluraque alia de nova Symptomata uti Ptyalismus, Urinæ suppressio, Hæmorrhagiæ profusæ, exanthematum recursus, interstitia Pustulis interjecta, petechiis vel eruptione miliari subinde notata funt, & figuram ex omni parte Sphæricam non servant, quibus de Causis arduum est, hoc malum à morbillis, Febre Erysipelatosa, Scarlatina, atque ab aliis morbis cognatis, de facie sc. externa discriminare. Hujus vero stadii limites, interdum ad octavum vel nonum usque diem prorogati, varie determinantur.

XXI. Simul ac confluentes exarefcentiæ stadium ineunt, Febris omnisque Symptomatum prius natorum cohors plurimum exarcebatur.

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Eruption of the Pustules sometimes comes before the fourth day, sometimes

it is deferr'd to the fifth or fixth.

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XX. After the Eruption of the Pufules, the Feaver goes on at the same rate, and with the same attendance of Symptoms, with which it is for the most part accompanied; and then there arise many other Symptoms anew, as Spitting, Stoppage of Urine, profuse Bleedings, striking in of the Pox, and the interstices between the Pustules are marked with Spots, or Milliar Eruptions, and the Pox do not keep a figure altogether round; from which Causes it is difficult to distinguish this Evil by its outward appearance from the Measles, Erysipelous, and Scarlet Feavers, and other cognate Diseases. The limits of this Stage are variously determin'd, sometimes being put off unto the eighth or ninth day,

XXI. As soon as the fluxing Pox enter into the stage of drying, the Feaver, and the troop of Symptoms arising before, are enraged;

Salivæ crudæ & tenuis rivulus, quæ ante hac pleno amne fluxit, Phlegmate admodum incrassato fere deficit, & strangulatione suffocativa excipitur, nisi Naturæ, vel artis fuppetiis adjuvetur, tumor & inflammatio Faciei artuumque Sensim fublident, unde æger cujus oculi præ tumore hactenus clausi eos aperire & videre incipit. Exanthemata pure nullo vel ichorofo repleta scabie nigra vel subfusca obducuntur; nec ante fextum vel feptimum declinationis diem desquamantur, non Raro, Ophthalmia, Tussis, Struma, Phthisis, Oedematosa surarum & pedum intumescentia, cum multis aliis id genus accidentibus, atque ad malorum cumulum cicatrices, & foveæ cuti turpiter inustæ, accedunt, quibus textura Faciei delicata, à sequiori Sextu ipli vitæ fæpe fæpius prælata, enormiter deturpatur.

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XXII. Premissis quæ superius de Variolarum differentia, Ætiologia uæ

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the stream of crude and thin Spittle, which before flowed plentifully, (the Phlegm being thickned ) is almost ftop'd, and is followed by a suffocative strangling, unless the Patient be relieved by the aid of Nature or Art; the Swelling and Inflammation of the Face and Joynts abate; whence the Sick, whose Eyes were hitherto shut up by the Tumor, begins to open them and see. The Pox filld with none, or an inchorous Corruption, are covered with a black or brownish Scab; nor do they scale off before the fixth or seventh day of their declination: Oftentimes there happen fore Eyes, Coughs, Swelling of the Throat, Phthisuk, Oedematous Swellings of the Legs and Feet, with many other assidents of like kind, and to the many other Evils, foul scars and pits in the Skin, by which the delicate Texture of the Face (often preferr'd to Life by the Female Sex) is enormously deform'd.

XXII. What we have faid above, of the difference, Etiology, and diag-CS

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& Signis diagnosticis dicta funt, ad fontes Prognostica, aperiendos jam proxime patet aditus. Ubi primum motus p. n. Sanguini ihducitur, Phænomena quædam apparent, eventum huic morbo secundissimum vaticinantia, quæ funt hujufmodi. Si Corpus omnis ægritudinis expers, Natura existente robusta, Variola invadant, si constitutio aeris sit bona maximusque decumbentium numerus convalescat, si in ætate Infantili vel Puerili, verno vel æstivo tempore contigerint, fi cum Symptomatum horrendorum absentia apparatus peragatur; si die quarto ubi egressa funt exanthemata Febris cum Symptomatibus gravioribus consopiatur, fi in primis eruptionis diebus maculæ fint distinctæ, rotundæ, copia mediocres, si falivatio copiosa tenuis & facilis ad finem usque cum voce libera & respiratione non molesta protendatur, fi exactis quinque Effloriscentiæ diebus, Pustulæ fint interpunctæ, molles, fastigitatæ, folum.

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nostick Signs of the Small Pow being premis'd, it lies next in our way to discover the Prognosticks. When first a Preternatural Motion is brought into the Blood, certain Phanomena appear, foretelling a happy event to the Disease; which are such as these: If the Pox invade a Body free from all Sickness, Nature being strong; if the Constitution of the Air be good, and the greatest number of the Sick recover, if it happens in Childhood or Youth, in the Spring or Summer time, if the appearance be without any horrible Symptom, if in the first days of eruption, the spots are distinct, round, not very many, if a plentiful, thin, and easie Spitting continue to the end, with a free Voice, and easie Breathing, if after the five days of breaking forth the Pustules are distinct, soft, and copped; if they only befet the out-parts of the Body, and none of the inwards; if their brims are of a brisk red, and enlarge their basis day by day; if the Feaver,

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folummodo Microcosmi littora, nullasque partes internas obsideant, si margines vegete rubeant, atque bases suas de die in diem amplient, si Febris, quæ sub ultimi stadii initium recrudescere solet, mitis sit bonique moris, & denique si Natura decimo tertio morbi die, omni ærumnoso accidente vacua, eliminato penitus

hoste, victrix triumphet.

XXIII. Signa suspecta & mali ominis habentur, quæ fequuntur, fi Corpus cacochymum, acidifque fuccis onustum sit, si plures ægrotantis antecessores in Variolas incidentes fatum acceleraverunt, si aer Acidis particulis sit gravidus, unde constitutio Variolosa, pestem feram ipse pro numero sc. ægrotorum pernicie exæquans, aliquando passim graslatur, si homines in flore ætatis vel natu grandiores hoc malo corripiantur, si patiens sit meticulosus, melancholicus, aut misere amatorius, aut quacunque alia amimi perturbatione graviori, quæ spiritus deprimendo acetofa

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Feaver, which is wont to increase again at the beginning of the last stage, be mild and moderate; lastly, if Nature on the thirteenth day of the Disease triumphs as a Conqueror, being free from all troublesome accidents, and has utterly thrust the Enemy out of doors.

XXIII. The Signs following are esteemed Suspicious, and do presage no good Event; if the Body be full of ill Humors, and loaded with Acid Juices; if many of the Patient's Ancestors have died of the Small Pox, if the Air be full of Acid Particles, from whence a Small-Pocky Constitution rages up and down, almost as destructive for the number of the Sick as the Plague it self; if Men in the Flower of Age, or older, are taken with this Disease, if the Patient be Fearful, Melancholly, deeply in Love, or under any other great Perturbation of Mind, which by depressing the Spirits, increase the soure Corpuscies, that lie lurking in the Humors; if the

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acetofa Corpufcula, in humorum gremio latitantia, adaugeat, exagi-Si Sanguinem habeat vehementiori motu, generosiori potu,vel calidiori regimine nimis exaltatum, & in efferatos motus adauctum, fi Corpus valde obesum, phthisicum, lue venerea, aut aliquo alio morboso affectu inquinatum Variolæ aggrediantur: exitum non nisi dubium expectare licebit. Nec minori periculo vacant, quando à primo morbi infultu, febris ingens, ægritudo universalis, nausea molesta, vomitiones enormes, jactatio inquieta, deliquia animi sæpe recurrentia, vigiliæ pertinaces, dolores capitis & dorsi acutissimi, fabulatio absurda, hæmorrhagiæ efferæ, dejectiones frequentes exurgunt, si ante vel post quartum diem appareant, maculæ variolarum prænunciæ, si Pustulis plene exortis luctus febrilis & cætera Symptomata mali moris, Apparatum comitantia, non remittant, si Erysipelatis, Morbillorum vel Febris Scarlatinæ ritu fe m

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the Patient's Blood be too much exalted by some violent motion, large drinking, or by a too hot management, and so put into a rage; if the Small Pox seize a Body that is very Fat, Phthisual, infected with the French Pox, or any other Morbous Affection, we may expect but a doubtful issue. Neither is there less danger, when from the first on-set of the Disease, there arises a great Feaver, an universal Sickness, a troublesome Loathing, unmeasurable Vomitings, unquiet Tossings, frequent Faintings long Watchings, sharp Pains of the Head and Back, absurd Talk, fierce Bleedings, or frequent Stools; if the spots, the harbingers of the Small Pox, appear before or after the fouth day, if the Pustules being fully risen, the Febril Heaviness, and other ill-natur'd Symptoms accompanying the appearance do not remit; if they appear after the manner of the Erysipelas, Measles, or scarlet Feaver; if a Spitting arises as soon as the Pustules break

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se prodant, si quamprimum Pustula Efflorescunt, Ptyalismus oritur, & post eruptionem Variolæ sint confluentes, cohærentes, male figuratæ, depresse, fessiles, duræ, strangulatæ, nigræ, lividæ, seu maculis purpureis interstinctæ, Si respiratio brevis & laboriosa cum deglutitione molesta

pulsu debili & citato urgeat.

XXIV. Ubi Tuffis importuna & sterilis, Urina cruenta, Micturitio frequens & molesta, Alvi Fluxus, aut Narium hæmorrhagiæ Ægrotanti superveniunt, ubi totum Eruptionis Stadium ante octavum vel nonum diem non consummatur, nihil inde boni sperare licet. Ubi Ptyalismi, quæ tenuis & facile ad primum novissimi stadii diem rejecta fuit, subito sponte sua sistitur, nisi profluvio Urinæ vel extremorum intumescentia compensetur sputi swei fufflaminatio conclamatum est. Ubi is a Febris, quæ fub apparatus ingressum aroj exorta fuit, ad exarescentiæ stadium anci usque unum tenorem servavit, in the delæ

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break forth; if after the eruption, the Pox flux, cohere, are of an ill figure, depressed, flat, hard, choaked, black, livid, or have any purple spots between them; and if the Patient be troubled with short and painful Breathing, difficult Swallowing, or a weak and quick Pulse. " sholubiner author

XXIV. Where an urgent and dry Cough, bloody Urine, often and troublesome making of Water, a Flux of the Belly, or Bleeding of the Nose, befal the Sick; where the whole stage of Eruption is not finished before the eighth or ninth day, there is no good to be hoped for: Where the matter of the Spitting, which was ejected thin and easie unto the first day of the last Stage, suddenly stops of it self, unless is the stopping of the Spittle be compenim sated by a flowing of the Urine, or ati swelling of the extream parts, the case bi is desperate. Where the Feaver, which im arose at the beginning of the appearim ance, stands at the same stay, until in the stage of drying, or is increased in the

declinatione exacebatur, si Deliria, th Vigilia, Spasmi, subsultus Tendi. in num, strangulatio Suffocativa, De. de glutitio interpellata, vibratio arte. th riarum debilis, Pustulæ distincta appetechiis aut eruptione miliari interjectæ, se in conspectum dant, e- ju ventus periculosæ aleæ plenus indicatur. Ubi crustularum casus ad los diem sextum vel amplius protendi- If tur, fi exanthematis definis avopegia, m Calor hecticus vel Tussis superint, or Phthisin, Assectus Strumosos, Ossa & Cariem, aut aliquam aliam labem Re Morbosam illico suppullulaturam D confidere par est, nisi Medicamen- un tis tempestive propinatis extermi-tin nentur.

XXV. His ita præmiss, nonnulla the de methodo prophylactica prælis of bare prinsquam therapeuticam agradior, summo usui fore existimavi by quibus nimirum modis Variolæ pas up sim desævientes a nondum Correpthetis evitentur. Ut quivis hunc scompum attingat, velis remisque con de

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the declination; if Ravings, Watchndi- ings, Convulsions, leaping of the Ten-De. dons, Choaking, Swallowing hinder'd, irte. the Pulses beat weak, the Puffules ncta appear distinct, with spots or miliar in- eruptions between them, the event is t, e- judged full of danger: And also indi-where the falling of the Scabs is pros ad long'd to the fixth day or farther. endi. If after the Pox are gone there repegia, main want of Appetite, a bectick Heat, Offis a Phthisick, Scrophulous Affection, aben Rottenness of the Bones, or some other aram Disease will thence spring up a-new, men-unless they are remedied by Medicines ermi-timely given.

XXV. These things premis'd, I nulla think it very useful to treat a little rælit of the Preservative method, before I ag fall upon the Curative, viz. To shew maviety what means the Small Pox, raging passup and down, may be avoided by those rrep that are not yet seized with them. That fco-one may attain this end, he must encon-deavour by all means that the Blood and ten

tendendum est, ne motus anomali and Spiritibus & Sanguini inferantur, & not ut omnes Acidi fomites, five in Aere Aci five in Corpore hospitantes rescindantur. Si ventriculus vitiosa col-luvie omustus sit, adsitque nausea vel sitela ad vomitum proclivitas, per supe-riora stomachus leniori medicamen-to everrendus est; propinanda eti-am purgatio mitior, mercurio dulci oyn maritata, ubi eam exigit artificiosa ma indicatio; & peracta five emetici and five cathartici operatione, fub vef Pur peram paregoricum continuo ut exhibeatur, author fum. Ubi con- he tingit Sanguinem exuberare vel ex about accidente plus justo attenuari, phlebotomia fæliciter institui posset: Ubi ex Aëre miasma Variolosum epide Wh mice grassari incepit, illud migrando in alium locum devitetur: Exercitia folito citatiora ; Liquoris ren Spirituosioris deglutitio, Ira, Metus, rat. Terror, cane pejus & angue fugien- Spir da funt. Ubi vero aliquis Corpus, ror nulla faburra vitiofa depravatum, conmali and Spirits be not put into disorderly notions, and that all nourishers of Acid, whether lodging in the Air or cinn the Body, be destroyed. If the colstomach be loaded with any vicious vel filth, and there be Loathing, or an spe-inclination to Vomit; the Stomach is to nen- e cleansed by some gentle Vomitive; eti- 160 a mild Purge may be given, ulci oyned with Mecurius Dulcis, where iosa m artificial Indication requires it; etici and the operation of the Vomit or vest purge being over, I always prescribe ex- an anodine Medicine to be given in the evening. Where Blood happens to exabound, or by some accident to be hele too much attenuated, the opening of the Vein may be very well prescribed: ide- Where the Small Pockey-Pollution, by ran-reason of the Air, begins to spread Ex-epidemically, it may be avoided by oris removing to another place: Immodetus, rate Exercises, the drinking of very ienspirituous Liquors, Anger, Fear, Terpus, ror, are to be avoided as Poyson. um, Where one has a Body depraved with

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consecutus est, cibis boni succi & coctu facilibus vescatur, embammata præparanda funt ex lujula, fucco citri, limonum, aliisque acidis fixis, quibus acidulum stomachi incola, veluci vinculis injectis in affeuto naturze foco incarceretur. Pro fitu restinguenda, ptisanam, cerevisiam tenuem, julepum ex decocto hordei, succo Citri vel spiritu vitrioli ley, instillato acidulatum, potet. Vitanda sunt aromata, fructus horarii, vinum, cerevisia fortis, & quæcunque alia quæ inebriare folent. Absorbentia uti margarita, oculi cancorum, corralium, atque myrrha Cra cum plurimis aliis hic fummæ uti-div litatis sunt; nec prætereunda est ble. animi tranquilitas animolitate cor-Mi roborata, quæ ad infultum hujus mali depellendum cæterorum præsidiornm facile caput est.

XXVI. Cum duplex fit hujus morfola bi species, nempe distincta & confluens, quæ in decursu juxta varia ejus stadia, & diversa Symptomata longe ver

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no vicious load, let him use Meats of good Juice, and easie of digestion; Sauces are to be made of Wood-Sorrel, Juice of Citrons, Limons, and other fixt Acids; by which the Acid, lodging in the Stomach, is as it were bound and imprison'd in the usual Focus of Nature. To quench Thirft, let him drink Barley-Broth, Small Beer, Juleps of the Decoction of Bar-Vi-ley, Sharpned with Juice of Limons, arii, or Spirit of Vitriol dropt in it. Shun oun- Spices, Summer Fruits, Wine, Strong Ab. Beer, and all things that are wont to caninebriate. But Absorbents, as Pearls,
crha Crabs Eyes, Corral and Myrrh, and
utidivers others, are here very profitaest ble. Neither must Tranquility of the cor- Mind, strengthened with Courage, be mali mitted, which is the chief Preservadio-tive against the invasion of this Dileale,

XXVI. Whereas there is a twonor-con-fold Species of this Disease, viz. the ejus affinct and fluxing Pox, which differ onge very much in their Course, according

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XXVII. Insultu distinctæ speciei facto, Therapeia exigit, ut Sanguis cûm a nimio torpore, tum a nimia incalescentia, vindicetur, huic enim fere idem accidit, quod Lactarii in caseo apprime conficiendo animadvertunt; sc. Dum calor lacti, temperiem ejus recens emulcii, non exuperans conciliatur, multum commoda secretio ab infuso coagulo inducitur. Sin eidem frigefacto vel ebullienti fermentum injiceretur, concretio aut vix omnino aut pressime succederet. Itaque cum Sanguis pigre admodum in vafis circulatur, stimulum adhibere par est, ubi vero plus nimis ebullit (quod sæpius accidit) & supra debitum tenorem evehitur, frænum ei æstuanti injici oportet. Ut hæc duo contraria evitentur, regimen naturalis partium carnofarum temperiei æmulum (in quo totius negotii

to the various Stages, and divers Symptoms, the curative Indications juggest

a different method of Cure.

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XXVII. The distinct kind having seiz'd a Person, it is requisite to the Cure, that the Blood be defended as well from too much Coldness, as from too much Heat; for here bappens almost the same which Dairymen observe in right making of Cheefe, viz. When the Milk is made not much hotters than it come from the Cow, the feparation by the Rennet is well made; but if the Rennet be put into it when it is either cold, or very bot, it is either not turn'd at all, or not as it should be: So when the Blood circulates but flowly in the Veins, at ought to be stirr'd up But where there is too great an Ebullition (which ofiner happens ) and the Blood runs faster than it should, its heat ought to be restrained. That these two Conmen traries may be avoided, a Governem- ment much like the natural Tempene- rature of the Carnous Rant (on which Hinge gotii most

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gotii cardo veritur) imperarizenum est. Ut hunc scopum attingamus, bona sit victus lex, quæ neque frigoris neque caloris excessum obtinet. Jusculis avenaceis, hordeaceis, panatella, & pomo cocto interdum vescatur æger. Potus instituatur ex liquore possetico vel cerevisia tenuiori pane tosto leviter tepesacta, & succo citri acidulatur. Aèr sit ex calido temperatus, stragulis solito gravioribus nequaquam co-operiatur, requies tum Corporis tum Animi summo adstantium studio procuretur.

XXVIII. Apparatus pharmaceuticus, ubi nulla mali moris Symptomata, ex infortunio quovis exuscitata, urgent, nullus omnino exigitur, sed res in totum Naturz, interpuctuarum Medico Felicissimo, committere peropus est: ubi autem cruor motu tardissimo per vasa defertur, cardiaca sale alchalisato predita subinde propinanda sunt, donec obstetricantibus his tota ejus Massa motu

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Hinge the whole business turns) onght to be prescribed. That we may attain this end, let there be a good order of Diet, which neither exceeds in cold or heat. Let the Sick eat Water-gruel, Barley-broth, Panada, and sometimes a Codled Apple. Let him drink Posset-drink, or small Beer warm'd a little, with a Toast, sharp-ned with Juice of Limons. Let the Air be temperately warm, and let not the Sick be covered with more Cloaths than ordinarity, and let the Attendants do all they can to give him rest of Body and Mind.

Symptoms arising from any Missortune, Medicinal Prescriptions are not at all required, but it is very necessary to commit this business of the separate Small Pox wholly to Nature, the most happy Physician; but where the Blood circulates but slowly through the Veins, we must presently give Cordials, prepared with an alkalous Salt, until by the help of these Medicines its whole Mass is car-

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motu citatiori circumvehatur. h. ter illa quæ huc maxime faciunt Medicamina; funt Bezoar: Orient: Margarita, Os de Corde Cervi, O. C. culi Caucrorum, Pulv. Gasconicus, & Crocus, &c. fin Sanguinis liquor im motum immodicum conceperit, pharmacis paregoricis dictis quar- ile to præsertim morbi die sufflaminare eum satagat Medicus : ex quorum classe est Laudanum; Syr. Diacodii, &c. quæ in dosi debita juxta rerum exigentias cum aquis appropriatis exhibita, cæteris prælucent; quorum usui (ni fallor) non minus Experientia quam Ratio suffragatur.

XXIX. Quam primum macula sparsim se produnt, hand infirma Cautione opus est, ne Crisis incapta nimia Medicamentorum ingurgitatione, vel Regimine plus justo calidiori, interturbetur, sed Natura, separationem molienti, totum negotium committere par est, dummodo Incalescentia non omnino torpeat.

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ried with a swifter motion: Among those Medicines which here are the most beneficial, are Oriental Bezoars, ient: Pearls, the Bones of a Stags Heart, O. Crabs Eyes, Gascoin Powder, Saffrons icus, &c. But if the Blood hath been put quor into an immoderate motion, let the erit, Physitian endeavour to stop it by genuar- ile Medicines, called Paregoricks, or ex day; of which sort is Landanum; Syr. Syr. of Diacodium, &c. which given in a due dose, with specifical Wa-ters, according to the Exigencies of things: The use of which (if I am not mistaken) Experience as well as Reason votes for.

XXIX. As soon as the spots appear here and there, there is need of no small Caution, lest the begun Crisis be disturb'd by taking of too many Medicines, or by a too hot Government; but it is sufficient to commit the whole business to Nature, which endeavours a separation, provided the Incatescence be not altogether languid;

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torpeat. Adinster lactis quod quo moderatiori calore præditum est, tanto facilius ab assuso Acido in partes secedet, separatione crasse congelatæ materiæ à tenui absolvetur. Diætam quod spectat & reliquum ægri regimen, in priori stadio imperatum, in hoc sartum tectum præstare admodum utile erit; & observata justa rerum non naturalium norma, sine ope Medica eruptionis stadium exitum desideratum inveniet.

tiæ diem, ubi pus concoqui incipit, danda erit opera ut dolor Pustularum inflammatorius Anodynis consopiatur, quorum ope non minus inquieta juvenum jactatio, quam Infantium ejulatus compescitur. Frigoris susceptio studiose præcavenda est, ne portiones congelatæ, ab humoris gremio in massam carneam secretæ, & penitus eliminatæ, per venas ex lege circulationis in Sanguinem repercutiantur. Victus hoc durante

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like Milk, which by how much it hath the more moderate heat, by so much the more easie it will separate by the affusion of the Acid, and the separation of the thick and congealed matter will be freed from the thin. As for Diet, and the other Government of the Sick, that which was ordered in the former stage, will be very prositative to be observed exactly in this; and a just Rule of the non-natural things being kept to, the Stage of Eruption will have the desired end without the Physitians help.

XXX. About the first day of the drying, when the Corruption begins to be concocted, we must endeavour that the inflamatory pain of the Pustules may be eased by Anodynes, whereby the unquiet Tossings of Youths is restraied, no less than the Crying of Infants. And we must studiously beware, that the Patient doth not take Cold, lest the congealed Particles, separated from the Blood, and quite thurst out into the slessly parts, be again drove back by the Veins into

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durante stadio instituatur tenuis. nimirum ex jusculis carnium expertibus, frustulum panis tosti cui butyrum illitum, subinde deglutiat æger, quorum ope Æsophagi Fibræ aridæ atque asperæ emolliantur, & latera ejus coarctata dilatentur, hinc alimentorum & Aeris deglutitio facilius perficiatur. Quoad cæterum regimen, in prioribus stadiis institutum, in hoc inviolatum observare licebit. Ubi primum Pustulæ, pure incrassato Scabie subflava obduci incipiunt, pruritus æruninosus ægri Faciem sæpenumero undique obsidet, adeo ut variolosus a crustulis immaturis essodiendis manus vix abstineat. Hujus molestis Symptomatis, a rigiditate orti, mitigandi gratia, totam Faciem oleo Amygd. dulc. vel jufculo vervecino subpingui stimulante pruritu, illinere perquam ne-Præterlapso morbi die cesse est. decimo tertio e lecto furgat, & exanthematum scabie per totum depolita, IS.

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the Blood by the Law of Circulation. While this stage lasts, there ought to be a thin Diet, VIZ. of Broth, without Flesh, and let the Patient Sometimes fivallato a bit of Toast and Butter; by the means of which the dry and rough Fibers of the Asophagus will be mollified, and its streightned sides dilated; hence the swallowing of Food, and the breathing in of Air will be perform d the easier. As to the rest; the Government prescrib'd in the former stages. may be kept inviolably in this. When first (the Corruption being thickned) the Pustules begin to be covered with a yallowish Scab; there is often a troublesome Itching all about the Face of the Sick, so that he can-harly hold his hands from scratching off the immature Scabsi To mitigate this troublesome Symptoms arising from the stiffness of the Scabs, it is very necessary to anoint the whole Face with Oyl of sweet Almonds, or tretty fat Mutton-Broth, if the Itching be urgent. The thirteenth day of the Disease being over, let the Person rise from his Bed, and

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posita, Fæces & morbi quisquisiæ, in Fistulis interioribus relictæ, ex alvo per Catharsin bis tærve reiteratam everrantur, a quibus detentis Affectus gravissimi sæpe sæpius ansam arripiunt, ac asterisco notandum est, quod ante Purgationis exhibitionem Carnes Animalium, Piscium, Ova nequaquam con-

cedenda funt.

XXXI. Hactenus de speciei distinctæ decumbenti eventum lætum fpondentis curatione, deinceps indicationis therapeuticæ confluenti, nunquam periculo vacuæ, exantlandæ funt. Sub exanthematum indistinctorum exortu, indicatio generica in hunc scopum dirigitur, nempe ut Acidum efferum ex propria sede protrusum cicuretur & subigatur, quo enim citius Acidi vis infringitur, eo minor Pustularum acies in stadiis mox nascituris confluit, & quo minus ex coherent, tanto major falutis spes affulget, quia totius curationis cardo in Pu-Aularum

and the Scabs being wholly off, let the Feces or Dregs of the Disease, left in the inward Pipes, be carried off by a Purge two or three times repeated; from which Feces, being retained, grievous Diseases very often take their rise. And it is to be well noted, that the Flesh of Animals, Fish and Eggs; are not at all to be indulged before

the Sick is Purged.

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XXXI. Hitherto of the Cure of the distinct kind of Pox, which promis'd a joyful Event to the Sick; in the next place the Curative Indications in the fluxing Pox, that are never without danger, are to be produced. At the breaking forth of the indistinct or fluxing Pox, the general Indication is to be directed to this Scope, That the fierce Acid, thrust out of its proper Seat, may be tamed and subjected; for by how much the sooner the force of the Acid is broken; by so much the Pustules flow the less together in the following Stages; and by how much the less they cohere, by so much there is the MOTE

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stularum paucitate consistit. Medico igitur hunc morbum ex arte curaturo non leve incumbit penfum. Hujus metæ attingendæ gratia, omnis cura impendenda est, ut omnes Acidi fomites in Corpore stabulantes (qua bene fieri possit) rescissaque coluvie rescindantur, acetofæ mineræ, ut motus naturalis tum Sanguini tum Spiritibus inducatur, Ut voti compos sit, ubi Viscera & Primæ viæ Saburra materiæ Acido-crudæ scatens, præcipue si nausea vel Vomitus ægrum lacessat, leviori emetico everrendæ funt. In quem usum liquor Posseticus cum foliis Cardui Benedicti incoctis, Oxymel Scillit. Sal Vitrioli, optime audiunt, & peracta Medicamenti operatione, Opiatum propinare ad orgasmum, a vomitione Sanguini inductum, compescendum non parum prodest.

MXXII. Ubi Morbus ex vehementi motu, vel ex Liquoris Spirituoli potu immoderatiori ortum traxit, te

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more hope of Health; because the Hinge of the Cure turns on the fewness of the Pustules: Therefore the Physician, that would cure this Disease according to Art, has no light Task. For the attaining of this end, all care must be taken, that all Nonrishers of the Acid, that abideth in the Body, may (as well as it is possible) be destroyed; and that the filth of its sowre Mine being taken off, the Blood and Spirits be put into their natural motion. That he may attain his desire, where the Bowels, Stomach and Guts abound with a load of crude Acid-matter, they are to be cleansed with an easie Pomit, especially if Loathing or Vomiting tronble the sick Person. For which purpose Cardum Poffet-drink, Oxymel of Squills, and Salt of Vitriot, are excellent; and the operation of the Medicine being over, to give an Opiate to allay the Commotion raised in the Blood by Vomiting, will be of great use:

XXXII. When the Disease takes its rise from violent motion, or immoderate drinking

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traxit, vena pertundatur, præsertim si ægrotans in flore Ætatis, vel Plethoricus sit, ne cum oceano rubello nimis attenuato, in eruptionis stadii, (quod nimis fæpe accidit) claustris vasorum disruptis, purpurea anima Diæta & Regimen ex frigido temperatum imperetur. Sedulo cavendum est ne Sanguis incendio febrili tactus, in motus citatiores, ex museo igne præter folitum luculentiori calefacto, ex stragulis acervatim injectis, aut ex pharmacis Cardiacis nimis officiose administratis, adigatur. Ubi tempestate præfervida Variolæ ingruerint, omnis focus ex decumbentis cubiculo procul arceatur, ubi autem frigida inciderint, tanto rogo fruatur, quantus cum fanus effet, uti folebat, & toto decurrente hoc stadio interdiu lecto abstineat; cibis ex jusculo hordeaceo, avenaceo, præparatis, vescatur. Pro siti depellenda cerevisia tennis, Zythogala fucco citri vel limonis instillato acidulata,

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drinking of Spirituous Liquors, let a Vain be opened, especially if the Sick be in the flower of his Age, or Plethorick, lest the Blood, being too much thined in the stage of Eruption, and the Vessels enclosing it, being broken, the Perfon expire, which too often happens. Here give order for a Diet and Government temperately cool. And we must diligently beware, lest the Blood, touch'd with a febrile heat, be put into a more violent motion, by a greater Fire than ordinary in the Chamber, or too much Bed-cloaths, or Cordial Medicines too officiously given. When the Small Pox seizes any in very bot weather, let there be no Fire in the fick Persons Chamber, but when it happens in a cold season, let him have so much Fire as he was wont to have when he was well; and in all this stage let him sit up a days; let his Diet be Barley-broth or Water-gruel. To quench his thirft, let him take at pleasure small Beer and Posset-drink, sharpned with the fuice of Citrons or Limons, Milk and Water, or simple Almond Milk. All Medicines,

dulata, hydrogala, vel amygdalatum fimplex, ad libitum hauriantur. Omnia Medicamenta vel moderate calida (ni fumma necessitas urgeat) procul amandentur, vix enim minimus caloris excessus, durante apparatu, cruori collatus, in stadii posthac orituris corrigi potest: eodem prorsus ritu ac si lacti plus justo fervefacto coagulum confundatur, inde præcipitationem, ad caseum optime fabricandum, frustra expectare licet. Absorbentia quæ Acidum in suo ipfius finu resipiunt, ac ejus energiam infringunt, in hoc affectu cicurando præter cætera excellunt, ex quorum classe sunt Corallia, Concha Ofereorum, Cornu Cervi, Ebur, Terræ Sigillatæ variæ, Bolus Armena, Terra Lemnia, Mater Perlarum, &c. Cathartica quæ in Stomachum detrudenda funt, Variolis in fieri existentibus, plus mali quam commodi adferunt, quoniam hæc dentes Acidi ut plurimum acuunt, & vix hactenus ulla nota funt Purgantia, quæ illud placide

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tines, if but moderately hot, (unless on great necessity) are to be avoided; for scarce the least excess of Heat brought into the Blood at the time of their breaking out, can be corrected in the following stages: Like as Rennet, if it be put too bot into the Milk, we shall in vain expect a right Precipitation, for making the Cheese as it should be: Absorbents, which receive the Acids into their Pores, and break their force, excel other Medicines in taming this Affection; of which fort are Coral, Oyster-shels, Harts-horn, Ivory, Terra Sigillata, Bole Armeniack, Lemnian Earth, Mother of Purgers, which are thrust Pearl, &c. into the Stomach, when the Small Pox are in Fieri, do more hurt than good, because they for the most part sharpen the Teeth of the Acid; and there are scarce any Purges yet known which do quietly turn it out: And for this cause it is (if I have some small capacity at guessing) that the Person sick of the Small Pox commonly is worse after

placide eliminabunt; & hac de causa est, si quid nostra mediocritas conjicere potest, quod exacta Purgationis operatione, variolosus frequentissime pessum ruit: quare si Alvus sit obstructa Clystere Lenitivo sollicitetur.

XXXIII. Symptomatis apparatui insidentibus brachius levis adhibendus non est: attamen quo minorum Medicamentorum vi demulcentur. eo fæliciorem eventum præsagire licet. Nam observatione maxime vulgari constat, Crisin imperfectiorem aut protractiorem, à levissima Sanguinis præternaturali agitatione, perpetuo subsecuturam, non absimili modo ac lacti liquore acido fuffuso, fi motu agitetur, præcipitatio minus commoda obtinebitur. Ubi dolor capitis atrox horrendufque, deliria, vigiliæ, sen coma profundum, propter materiæ acris congelatæve, è cruoris sinu in cerebri Meninges metastasin excitantur, Epispastica acria nuchæ & pone aures, aliisque locis folitis, pro data occasione exterius

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XXXIII. The Symptoms accompanying the appearance are not to be neglected: The fewer Medicines, they are mitigated with the better event may be presaged. For it appears by the most vulgar Observation, that a more imperfect and flow Crisis always follows from even the lightest Preternatural Agitation of the Blood, after the manner of Milk, if it be firr'd while an Acid Liquor is pour'd into it, the Precipitation is not so well made. Where cruel and horrible Pains of the Head, Ravings, Watchings, or profound Sleep, are caused by reason of the translation of the harp or congealed matter out of the Blood into the Meninges of the Brain, let sharp Blister-Plaisters be applied to the Nape of the Neck, between the the Ears, and in other usual places, as occasion shall require; and let there be

applicentur; interne vero Pulveres absorbences, aquis huic morbo idoneis, admixti propinentar, quos hic loci enumerare ne Cramben recoctam apponere videar, inutile duxi. Sin hullum levamen ægro ab his procurari possit, ad paregorica (nifi fomius profundus urgeat) feu ad anchoram facram, ultimis præfertim hujus stadii diebus, confugiendum est. Ubri febris Petechialis, coagulationis egregiæ indicium, varioloso supervenit, ex Alexipharmacorum classe aliquot, Sanguinem coagulatum attenuandi & Acidum cicurandi virtute donata, præscribenda funt. uti Pul. Gascon. Bez. Miner. Pnl. Pannonicus Ruber. &c.

XXXIV: Ubi Diarrhæa, nunquam periculo carens, adultum invalit, a primo ipfius ortu, utut mitis fit, CCC. Conf. Rosar. rub, Bolis variis, Rad. Tomentill. Pentaphill. Decocto Albo, Diascord. aliisque Anodynis fiftere eam opportet. Cêrevifia & emnis potus floribus cerevisiæ fer-

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be given inwardly Absorbent Powders, mixt with Waters, convenient for this Disease; which I think here needless to repeat, lest I should nanseate the Reader. But if the Sick find no nelief from these, we must fly to Anodynes (unless in the case of profound Steep ) as the last Refuge, especially towards the extremity of this stage. Where the spotted Feaver, a sign of a great Coagulation, befals the fick of the Small Pox, Some Such Antidotal Medicines as have a Vertue to thin the Coagulated Blood, and tame the Acid, are to be prescrib'd, as Gascoin Powder, Bezoar Mineral, Pulvis Pannonicus Ruber, &c.

never without danger, shall invade an Adult Person, though it be mild, we ought to stop it at its very beginning with burnt Harts-horn, Conferve of Red Roses, with various Boles. Tormentil Roots, Cinquesoil, Decostum Album, Diascordium, and other Anodynes. Beer, and all Drink fermented with

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mentatus evitetur. Præter hæc jam memorata Phænomena, nonnunquam dolor, Pleuriticorum æmulus, ægrotantis latus obsidet, qui Phlebotomia, Linimentis, Fotibus, & aliis topicis Pleuritidi veræ dicatis, sublevandus est Interdum gravis in intestina decumbit dolor, passionem colicam imitans, qui Unguentorum, Enematum, Laudani

ope profligandus est.

rendi Epilepsæ persimiles, circa quartum ab insultu diem, ægrum insestant, qui Pustulis exhortis, sine artis subsidio sponte evanescere solent. Ubi autem diutius affligunt (quam sieri assolet) ope Medica averruncandi sunt. Hoc interim observandum est, quod in hoc stadio vitæ & mortis jacta est alea, unde levissimus hic Error commissus, toto decurrente Morbo, crucem siget Medico. Præterea subinde accidit, quod nonnulli a regimine supra modum calido, & à re-

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he now recited Phenomena, sometimes Pair like that of the Pleurisie seizes he Patients side, which is to be eased by Bleeding, Liniments, and Fomenations, with other Topicks appropriated to the true Pleurisie. Sometimes a great Pain salls upon the Bowels, like unto the Collick, which is to be taken off by the help of Ointments, Clyfers, and Laudanum.

XXXV. Sometimes horrible Conpulfions, much like the Falling Sickness, infect the Sick about the fourth day of seisure; which, when once the Pustules are risen, are wont to vanish of themselves, without the help of Art. But when they afflict longer than they use to do, they are to be taken away by the help of Medicines. In the mean while, this is to be observed, that in this stage the Dy of Life and Death is cast, whence the mallest Error committed here will exreamly trouble the Physician. Moreover, it often happens that some die by too not a Government, and Remedies that PHI

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humoribus conciliantibus, Pustulis nondum egressis, è vita migrent Nam horum ope confusio magna noi potest non excitari, & quicunque mediante Ebullitione, particularum congelatarum in massa Sanguinea volitantium, separationem expectaret, frustra esset. Velut anicula, qua lactis Acido perfusi, & in Olla Ebullientis, igni somitem subministrando, præcipitationem & portionis congelatæ à tenui subsidentiam moliretur.

ad apparatum accommodatis, nunc, ut ad Eruptionis Stadium pedem promoveamus, omnino convenit, quo se stadio materia coagulata in Massam Carneam critice eliminatur. Quoad Victum, idem genus cibi & potus hic indicatur, quod in priore stadio imperavimus. Quoad Regimen ante diem a Pustularum expulsione secundum interdin à lecto abstineat æger, ubi vero sese cubili commist, oneretur stragulis nec

put the Blood into too rapid a motion before the Pustules come out. For by means of these a great Confusion will be raised; and whosoever by means of the Ebullition should expect a separation of the curdled Particles swimming in the Blood, would expect it in vain. Just as an old Woman, who should endeavour the Precipitation and Subsidence of the curdled part of Milk, after the Runnet is mixed with it, and boiling in a Pot,

by adding Fewel to the Fire.

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XXXVI. Having finished the Indications, accommodated to the appearance, it will be convenient now that we consider the Stage of Eruption; in which Stage the coagulated matter is critically cast out into the Fleshly Mass. As to Diet, the same kind of Meat and Drink is here indicated which we ordered in the former stage. As to the Government, before the fecond day from the expulsion of the oul-Pustules, let the Sick sit up a days; but when he goes to bed, let him have no more nor no less Bed-cloaths than he

ponderosioribus neclevioribus, quam quibus sanus uti assueverit, atque ut de latere in latus, & ab una parte lecti in alteram pro arbitrio fuo fe convertat, venia concedatur; ab inclementia tamen aeris præsertim hiemalis muniendus est, quoniam a frigoris susceptione Pustulæ eruptæ subsidere solent, & contra a nimio æstu sæpe confluunt. Quod animi pathemata spectat, metus tristitia, cogitationes intensæ, &c. quæ spiritus deprimendo acidum per totam Sanguinis ditionem adaugent, devitanda funt. Ubi Medicus probe novit patientem Variolas nimis exhorrescere pia fraude utatur, ut æger (in quantum fieri licet) sui ipsius mali inscius teneatur, qua arte nonnulli falvi evaserunt, quando alii Pustulis egressis, & nullo exitiali Phænomeno stipatis, ubi primum Morbum cognoverunt, spiritus viresque statim subsiderunt, hinc omnia pessim iverunt donec morte præmatura e vita excesserunt.

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he used to have when he was well; and give him leave to turn himself from side to side, and from one side of the Bed to the other, as be pleases: Yet he is to be defended from the cold Air, especially in the Winter time, because by taking cold, the Pustules that are come forth are wont to fall; and on the contrary, by too much heat they often flux. As to the Passions of the Mind, Fear, Sadness, Intense Thoughts, &c. are to be avoided, which by depressing the Spirits increase the Acid through the whole Empire of the Blood. When the Physitian certainly knows that the Patient fears the Small Pox, let him use some caution, that the Sick (as much as possible) may be kept ignorant of his Disease; by which Art some have recovered, where others, when the Pustles have been out, without any deadly Symptom, when once they have known the Disease, their Spirits and Strength have presently fail'd. Hence all things have gone backward, until they have departed this Life by an untimely Death. XXXVII.

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XXXVII. Præter Symptomata, in superiori stadio depicta, quædam de novo excitantur; velut Hæmorrhagiæ profuæ, Tuffis ferina, Ptyalifmus, Urina suppressio. Circa primum hoc animadvertendum eft. omnem Sanguinis Fluxum malum ominari, five ex Naribus, Gingivis, Renibus, Utero, five ex quacunque alia Corporis parte emanet, Eum igitur hic scopum nobis proponimus, ut omnia fræna cruori furiofo & æstuanti imponantur, quibus ejus impetus consopiatur. In hunc finem Vitriolica, ut Spiritus Witrioli, Aqua Stiptica Regali, cum mixtura convenienti guttatim pitiffata, longe cætera antecedunt; præcipue si Regimen moderatum præscribatur, fine quo Remedia spasinilala parum valet. Cruor ex ægrorum Naribus, vel in flore Ætatis exiftentium, vel Sanguinem generofiori Liquore exaltum obtinentium, quandoque stillat. Topica horum Naribus indita (postquam din fluxit) interdum àta,

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XXXVII. Besides the Symptoms describ'd in the former stage, some are excited a-new, as profuse Bleedings, a troublesome Cough, Spitting, Suppression of Vrine. As to the first, this is to be considered, that all Fluxes of Blood prtend evil, whether the Blood flows from the Nostrils, Gums, Reins, Womb, or any other part of the Body. Here then I propose this scope to my self, that all Checks may be put to the furious and hot Blood, by which its force may be allay'd. To this purpose Pulvis Ischemus, Vitriolicks, as Spirit of Vitriol, the Royal Stiptick Water taken by drops, by little and little, with a convenient mixture, far exceed the rest, especially if a moderate Government be prescrib'd, without which the most effectual Remedies do little good. Blood Sometimes flows from the Nostrils of the Sick, either in the flower of Age, or of those that have their Blood exalted by drinking generous Liquors. Here Topicks put into their Noses (after it hath flow'd a great while) sometimes E 3

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interdum totum opus absolvunt. Sicut non ita pridem affini meo adotescenti accidisse memini, cojus Sanguis ad horas quamplures, liberrime profluxeat, ut omnis spes reconvalescentiæ erepta fuerit. Ad eum falutandum veniens, plurima Restringentia, quæ mihi ad manum erant, parti laceratæ applicari curavi. Sed omnis operæ jactura fiebat, donec Linteum rasuni chalcantho rubefacto conspersium, & dein in turundam formatum nari, ex qua Sanguis emanabat, indebatur; Cujus beneficio juvenis annuente Deo ab orci faucibus ereptus est.

XXXVIII. Tustim quod attinet fedandam, ubi Patientem nimis excruciat, Tabulis Bechicis, Glycyrrhyza, variisque ejus præparatis, Syr. Capill. vener. de Meconio, &c. ei occurrendum est, quibus ad sociam operam addatur (si res exigat) Oleum Amydal. dulc. parca tamen manu, ne Alvi Fluxum inducat, qui quocunque Morbi stadio Adultis ingruit,

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times do the whole business. As not long ago; I remember happen'd to a young Man, who was my Kinsman, whose Blood flow'd freely for many hours, so that there was little hopes of his. Recovery: I coming to fee how he did, ordered many Restringents, which I had at hand, to be apply'd to the lacerated part; but all was labour in vain, until some Lint, sprinkled with Vitriol calcin'd to redness, and then made into a Tent, was thrust up into the Nostril, from whence the Blood flow'd; by the benefit of which, with the Blessing of God, the young Man. was snatch'd from the Jaws of Death.

XXXVIII. As to stopping the Cough where it torments the Patient too much, we must help him by the Bechick Lozenges, Liquorish, and its various preparations, Syrup of Maiden Hair, Meconium, &c. to which, if need be, Oyl of Almonds may be added, yet sparingly, lest it bring a Flux of the Belly; which if it invades the Adult, in any stage of E 4

gruat, nisi arte cohibetur, conclamatum est. Sin Infantes invaserit. melioris spei habetur, in quibus haud raro Morbum folvit, nec fine imminenti Patientis tenelluli periculo. fistitur. Hujus rei veritati, insciarum male locata Muliercularum opera in darrhœa istiusmodi coërcenda, fuffragatur, quæ magnos Infantium cohortes tumulo demisit. Ut diarrhœa Infantes, Variolis confluentibus correptos, ita falivatio Adultos, invadere solet, quorum neutri sine periculo frænum injicitur. Interdum sub primum eruptionis diem, quandoque serius salivæ Rivulus effluere incipit. Quamprimum autem se prodit, guttur partesque salivæ secretioni dicatæ, à frigoris externi injuria pannis laneis villosis mollibus croco intersutis, sedulo muniantur. Secundo tertiove die à Ptyalismi ortu præterlapso, Phlegma viscosum & vitiosum œsophagi parietibus, aliifque locis proxime adjacentibus, nonnunquam pertinaciter

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this Discase, unless it can be stop'd by art, there's an end of him. But if it invades Infants, there is more hope; in whom sometimes it carrieth off the Disease; nor is it stop'd without imminent danger to the little Patient. The ill apply'd Labours of ignorant Women, in Stopping Such a Flux, witness to the Truth of this matter, which hath sent great numbers of Infants to the Grave. As a Flux is wont to trouble Infants taken with the fluxing Pox, so ... does Spitting the Adult; neither of which can be check'd without danger. Sometimes about the first day of the Eruption the Rivulet of Spittle begins to flow more flow; but as soon as it appears, let the Throat, and parts dedicated to the separation of the Spittle, be carefully defended from the injury of the external Cold with double Flannel, and Saffron Sew'd up in it. The second or third day of Spitting being over, viscous and tough Fleam sometimes sticks very bard to the sides of the Gullet, and other places near adjacent; which is presently accompanica ES

maciter adhærescit; quod inslammatio & deglutiendi dissicultas statim comitatur. Ad quæ Accidentia pessime urgentia debellanda, ex usu sunt sunt Gargarismi incidentes & emollientes, quibus saliva incrassata attenuatur faciliusque excreatur. Saccharata hic sugienda sunt, quippe horum viscositate (Expertus loquor) labia à se invicem ægre deduci que unt, & Phlegma jam difficulter excreabile glutinosius redditur.

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XXXIX. Aliquando Urinæ suppressio, à Spirituum Animalium erazia ut plunimum prognata, juvenes vegetosque aggreditur. Ad hunc effectum, periculosæ aleæ plenum, tollendum Sydenhamius imperar, ut æger lecto exurgat & adstantium ope cubiculum circum ambulet. Alii Salia Lixivialia ut Cineres Busonum ex Arte calcinatos, præ cæteris commendant. Hoc insuper animadvertendum est, Symtomata sub Morbi initium orta si in hoc usque Stadium protendantur eodem

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ur m nied with an Inflamation, and difficulty of Swallowing. To overcome these very urgent Accidents, cutting and emollient Gargarisms are to be used, by which the thicken'd Spittle may be attenuated, and more easily spit out. Things sweetned with Sugar are here to be avoided, because by their Viscousness (I speak by Experience) the Lips can scarce be parted from one another, and the Phlegm already hard to be spit out, is made more glutinous.

XXXIX. Sometimes suppression of Urine, caused for the most part from the disorder of the Animal Spirits, seizes the Young and Lusty. To take away this very dangerous Effect, Sydenham orders that the Patient rise from his Bed, and by the help of the Attendants walk about the Chamber. Others commend Lixivial Salts above all things, as Cineres Busonum calcin'd by Art. This moreover is to be

consider'd, that the Symptoms that rife

at the beginning of the Disease, if they

are prolonged even unto this Stage, are

evacuantium classe. Quod si nulla exanthemata egrediantur, quamvis de Liquoribus Cardiacis nullam mentionem feci, tamen ubi vires deficiunt, quod ex debili arteriarum vibratione facile à Medico in sua arte perito dignosci potest, pitissandi sunt

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XXXX. Finito tempore ad Expulfionem accommodato (cujus duratio in hac specie admodum incerta est, haud raro enim in octavum vel nonum usque diem prorogatur) Jam ad exarescentiæ tempus veniendum, quo tempore partes Sanguinis congelatæ, hactenus cruori confusæ, tuberculorum specie eliminantur atque expelluntur. Hinc Tragædiæ residoum, quod superest, in Carne musculosa peragitur. Ubi primum Pustulæ ad summam acuminationem evehuntur, quæ faciem obsident, primo crustam induunt, deinde quæ cæteris Corporis partibus inhærent. Quantum temporis in exarescentiæ stadio

to be cured by the same Provision of Medicines, except the Class of Purgers upwards and downwards. But if no Pox appear, although I have made no mention of Cordial Liquors, yet they may be drank by little and little, where the strength fails; which may be easily known from the weakness of the Pulse

by a Physician skilful in his Art.

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XXXX. Having finished the time accommodated to Expulsion (the duration of which, in this fort of Pox, is very uncertain; for it is sometimes prolong'd to the eighth or ninth day) We must now come to the time of their drying, in which time the curdled parts of the Blood, hitherto confused, are turn'd out and expell'd in the form of little swellings. Hence the rest of the Tragedy, which remains, is acted in the musculous Flesh. When once the Pustules are at the highest coppedness, those that are on the Face scab first; afterwards those on the other parts of the Body. How much time the stage of drying takes up, can scarce be predicted;

stadio teratur, vix prædici potest, nunc quatriduo decursus hujus stadii perficitur, nunc in fextum feptimumve diem protelatur. Postquam verò Pustulæ plene impletæ funt, cruor per Fibras carnofas, ab Abscessulis occupatas, libere non defertur, nam aliæ à furunculorum lateribus obsessæ coarctantur, aliæ à materia crassa eis impacta obstruuntur; hinc Sanguis in motu sufflaminatus fieri non potest, quin in obicem fuum arietet, unde Dolor tensivus, Inflammatio, & Febris, quæ in præcedenti stadio aliquantum suæ ferocitatis deposuit, prælium de novo instaurat, & certo certius ni Symptomata Pustularum, maturationem comitantia, Arte Medica demulceantur, ægrotantem neci dabit. Nec quemvis facile latebit periculum fatis magnum à tanta furunculorum copia fuboriturum, qui uno tantum Abscessi laboravit. Remedia in hoc casu necessaria sunt Opiata cum aquis

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dicted; for sometimes the course of this Stage is finished in the space of four days, sometimes it is protracted to the fixth or seventh day. After the Pustules are quite full, the Blood is not carried freely through the carnous Fibers, occupied by the little Abscesses; for some of them are streightned by being beset by the sides of the little boils, others are obstructed by gross matter implanted in them; hence the Blood, stop'd in its motion, it cannot but beat upon that which stops it; from whence a Tensive Pain, Inflammation, and a Feaver (which in the preceding stage abated something of its fury) begins the fight anew; and most certainly unless the Symptoms accompanying the maturation of the Pustules, are mitigated by the Medicinal Art, it will kill the Sick. Neither can any easily be ignorant of the danger (which is great enough) arising from so very little boils, who hath had only one boil. Remedies necessary in this case are Opiates mixt with Alexipharmacks,

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aquis Alexipharmacis mixta, quæ toties in die, debito spacio unicuique Dosi interpsito, reiterari debent, usque dum Medicus voti propoliti compos lit. Cardiaca que Naturam fatiscentem sublevare folent, hic summo usui sunt, si quid hariolando valeo, tum ad Portiunculas concretas in Sanguinis effæti finu adhuc delitescentes exturbandas, tum ad Massam ejus pene Spiritibus orbatam volatizandam. Fieri enim vix potest quin maxima crassamenti purpueri pars à tanta Acidi quantitate, ei sussusa, quo hic affectus jugiter stipatur, coaguletur. Hinc materies pro Spirituum Animalium genesi in primis Morbi diebus rescinditur, cujus jactura, administrata convenienti diæta, in fecundo stadio minime resarcietur. Quid Mirum igitur, si in novissimo stadio patientis vires, ni artis ope adjuventur, deficiant? Partem vero Sanguinis crassam floridamque in Abscessulorum fomitem abire venæsectio

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macks, which ought to be repeated so oft in a day, (a due space being put between every Dose) until the Physitian hath his proposed end. Cordials, which are wont to relieve failing Nature, are here of great use, if I have any good guess, as well to drive out the concreted Particles, yet lurking amidst the languid Blood, as to volatilize its Mass, almost bereav'd of its Spirits. For it can hardly be, but that most of the purple thick part will be coagulated by such a great quantity of Acid pour'd into it, as this Disease is always accompanied with. Hence the matter for the Generation of Animal Spirits is cut off in the first days of the Disease; the loss of which can in no wise be made up, tho' a convenient Diet be prescribed in the second stage. What Wonder is it therefore, if in the last stage the Patients Strength fails, unless he be helped by Art? But that the thick and florrid part of the Blood goes to the nourishment of the little Abscesses, Blood-letting at the going away of the Small:

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nesectio sub Variolarum exitum celebrata (ut mihi videtur) fidem facit; ubi enim cruor Symptomatibus fumme defævientibus in hoc stadio venis emittitur, & in vase refrigeratur, vice placentæ purpureæ crassamentum subalbidum viscosum haud una macula fubrubra interpunctum, feri ad instar vi ignis inspissati habebitur. Hic etiam Sanguis cum lacte analogiam obtinere videtur, nam ubi illi ebullienti quidpiam Acidi instillatur, omnes particulæ caseosæ, in ejus sero hospitantes illico agglomerantur, adeo ut serum ejus partium sulphurearum, & spirituosarum inops nutricatum haurienti ulterius impertire nequeat.

XXXXI. Circa hujus stadii curationem Medico magna incumbit difficultas, quoniam decumbentis vires à longa Morbi duratione & à magna Symptomatum farragine atteruntur & profligantur, ut lampadi vitali prorogandæ insufficientes siant, nist quid suppetiarum adferatur. Hac de

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Small Pox (methinks) makes credible; for where the Blood is taken away in this stage, whilst the Symptoms are most outragious, and permitted to cool in a Vessel, instead of a purple Cake, you will have a white viscous thick matter, like Serum inspissated by the force of Fire, without many spots of red. Here also the Blood seems to have an analogy with Milk; for when an Acid is pour'd into it when boiling, all the Cheefey Particles lodging in its serum, are gathered together; so that its serum being void of Sulphurous and Spirituous parts, can no more nourish him that drinks it. 199197101 note: 000 199

AXXXI. The Physitian finds great difficulty about the Cure of this Stage; because the Patients Strength is worn out and wasted, by the long duration of the Disease, and diversity of Symptoms; so that it is insufficient to continue the vital Lamp, unless it have some help. For this cause I think it will be very prositable to give now and then a spoonful of Canary, where-

de causa rem maximæ utilitatis fore autumavi, vinum Canarium fubinde chochleatim exhibere, quo Natura fatiscens, ad moleculas concretas Sanguini adhuc inhærentes ejiciendas, erigatur. Pro victu juscula avenacea, quibus cochleare unum vel alterum vini generosi urgentibus languoribus addatur, panis tostus cerevisia intinctus, vel cum butyro interdum concedantur, & ut Tiquoris vel cibi nonnihil fingulis horis, ad eorum transitum faciliorem præstandum, deglutiatur, Author sum. Regimen temperatum observetur, ut æger nec æstu torreatur, nec cæli inclementiæ objectetur. Ubi vero ex frigore admisso, seu ex quocunque alio accidenti, Pustulæ subsident, earum elevatio cum aq. Theriac. Epidem. Pulv. Gascon. Theriac. Androm. Sale Volat. CC. Armon, &c. regimine etiam conformi, procuretur. XXXXII.Symptomatibus falivatio-

XXXXII. Symptomatibus falivationi annexis, hisce diebus ingravescentibus, cura levis impendenda non est:

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by sinking Nature will be raised up to cast forth the loads of the concreted matter, yet remaining in the Blood. For Diet, Water-gruel with a Spoonful or two of generous Wine added (the faintings urging) may be allowed, or a Toast in Beer, or with Butter, may be sometimes given; and I order some Liquor or Food to be taken every hour, that thy may be able to swallow the more easily. A temperate Government must be observed, that the Sick may be neither scorched with Heat, nor exposed to the cold Air. But where the Pustules fall from Cold taken, or any other accident, let them be raised again with Treacle Water, Epidemick Water, Gascoyn Powder, Venice-Treacle, Vol. Salt of Hartshorn, and of Armoniak; and also by a fitting Government.

XXXXII. The Symptoms accompanying the Spitting growing bad, in these days we must take no small care: Such are Pain, with inflammation of the Gullet, difficulty of Swallowing

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uti funt dolor œsophagi inflamma. torius, deglutiendi difficultas, falivæ concretio, & dein totalis ejus suppressio, quæ subitam ægrotanti, ni remediorum vi fublata fint, fuffocationem intentant. Apparatus pharmaceutici in hos fines idonei, funt gargarismi incidentes & attenuantes, siphonis ope sæpius de die ingesti, quibus phlegma glutinosum ductus salivales oppilans, vel œsophagi parietibus adhærens, everritur faciliusque excreatur. Ego Variolosus ipsissimis his symptomatibus affectus & pene deploratus, gargarismum ex sem. anisi fænic. dulc. liquerit. cui colato mel rosar. spiritu armoniaci saturatum suffusum erat, concinnari curavi; quo tertia vel quarta quaque hora os collui, & ore colluto, cochlear unum vel alterum ejusdem mixturæ successu vix expectando deglutivi. Nonnunquam gutturis fiftula tanta crustufarum cohorte obsidetur, & æger ne guttulam potulenti quidem haurire na-

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lowing, thickning of the Spittle, and then its total suppression; which quickly choaks the Patient, unless taken away by the help of Medicines. The Medicinal Provisions, convenient for these ends, are Cutting, and attenuating Gargarisms, injected with a Syringe many times in a day, by which the glutinous Phlegm, stopping the Salival Ducts, or adhering to the sides of the Gullet is scowr'd off, and more easily spit out. I once having the Small Pox, and affected with these very Symptoms, and almost past hopes, caus'da Gargarism to be made of the decoction of Aniseed, Sweet Fennel-Seed, and Liquorish, to which being strain'd Mel Rosarum, Saturated with Spirit of Salarmoniack was added, with which I wash'd my Mouth once in three or fours hours; and having wash'd my Mouth, swallow'd a spoonful or two of that mixture, with unexspected success; sometimes the Throat is so full of Scabs, that the Sick cannot drink a drop.

rire valeat. Ad hanc Obstructionem tollendam, spongia apici virgulæ, ex offe cetaceo fabrefactæ, firmiter alligetur, illaque Oleo A. mygd. dulc. intincta per œsopha. gum deferatur, ut illius vi Puftulæ confluentes separentur, & facta separatione, sorbile quid in horas pai deglutiat. Quandoque salivatio ita Su deficit, ut omni Gargarismorum Spi tribu in auxilium accersito redinte- bre grari nequeat, & hinc mortem pra mi foribus stare prædicere liceat, ni pre intumescentia extremorum, vel Fluxu Urinæ Diabetico, vi Naturæ vel Artis excitato, Ptyalismi defectus compensetur. Puritus, à am Crustularum Faciei insidentium ri- ing gidate humorisque acrimonia or the tus, moleftias vix ferendas creans, can Oleo Amygdal. dulc. Sper. ceti, be Oleo Hyper. jusculis subpinguibus of Sublevandus est, & penna his in- fat tincta singulis fere horis facies de- an mulceatur.

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a drop of any Liquor. To take away this Obstruction, let a Spunge be ty'd fast to the end of a small Rod of Whalebone, and being dipt in Oyl of Abmonds, let it be thrust down the Patients Throat, that by the force thereof the confluent Pustules may be separated; and the separation being made, let him take some Suppings every hour. Sometimes the Spitting is so stopped, that it cannot be brought again to flow by the help of all the tribe of Gargarisms; and then we may predict, that Death is at the door, unless the swelling of the extream parts, or a Diabetick Flux of Urine raised by the force of Nature or Art, make amends for this defect of Spitting. Itchri- ing from the stiffness of the Scabs on or- the Face, and Acrimony of the Humours, ans, causing a trouble scarce to be born, is to eti, be eased with Oyl of sweet Almonds, bus of Spermaceti, of St. John's Wort, and in- fattish Broths; and let the face be de- anointed with a Feather dip'd in these, almost every hour.

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XXXXIII. Reliqua Symptomata, ut Vigiliæ, Deliria, Diarrhœa, Hœ. morrhagiæ, &c. in præcedentibus Stadiis excitata, atque huc ufque protensa, eadem medendi methodo debellentur, perinde ac si superiora stadia nondum exacta fuissent. Ubi febris, intermittentis typum induens, jam oritur, eam domandi gratia Cortex Peruvianus cæteris prælucet. Crustulis decidentibus è lecto furgat, horaque una vel alterà ad summum elapsa nidum repetat, per biduum in eo decumbat, dein ad libitum furgat. petitu restituto, sordes in primis viis & humores effæti in Corporis habitu delitescentes, purgantibus ter ad minimum reiterandis, exturbentur, quibus detentis sæpisfime gravissimis affectibus laxatur janua. Notatu perdignum est Appetitu & Corporis Temperie nondum restitutis, cathartica fortiora nullatenus administranda esse; quoniam femina acetofa, Sanguini adhuc perfusa, ata,

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XXXXIII. The other Symptoms, as Watchings, Ravings, a Flux, Eleeding, &c. excited in the preceding Stages, and continued till now, are vanquish'd by the same method of Cure as if the former Stages were not finished. Where a Feaver, like an Intermittent, arises, the Peruvian Bark excels the rest for taming it. The Scabs being fallen off, let the Patient rise, and go to Bed again after an hour, or two at most, and lie there for two days, and then rise at pleasure. The Appetite being refor'd, the filth in the Stomach and Bowels, and the dif-spirited Humors stagnizing in the habit of the Body, are to be carried off, by Purging twice or thrice; which foul matter being detained, thereby occasion is given to many grievous Distempers, and it deserves to be noted, that strong Purges are in no wise to be given till the Appetite and Temperature of the Body be restored; because the sowre Seeds, as yet dispered through F 2 the

perfusa, ab his exacerbata, novam

procellam intentant.

XXXXIV. Ubi Acidi reliquia, nondum fubactæ, in massa Sanguinea stabulantur (licet Pustulæ suas exuvias in totum deposuerint) inappetentia adest, cum calore præternaturali nune continuo nune intermittente, sudores nocturni, ægro molestias facessunt, quæ margaritis ocul. cancr. pulvere patrum, vino generoso oppugnanda sunt. Cruore admodum depauperato spirituumque inope, particulæ ejus glutinofiores & æquo concretiores per vafculorum ramulos impulfæ, nonnonquam partibus adenosis impinguntur, unde Parotides & affectus strumosi ortum trahunt. Nonnunquam Massæ Carnosæ illiduntur ejusque tubulosas Fibras obstruunt, hinc tumores, ulcerum antecessoriginem fumunt. Quandoque offium porulos infarciunt, hinc eorum caries oritur. Interdum plurimos musculosæ carnis tubulos obsident, ut mo-

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XXXXIV. Where (the Relicks of the Acids are not yet overcome, altho' the Scabs may be quite fallen off) there is want of Appetite, with a Preternatural Heat, sometimes continual, sometimes intermitting, and Night-Sweats which trouble the Sick, thefe are to be vanquish'd by Pearls, Jesuits Powder, Generous Wine. The Blood being very much depauperated and disspirited, its more elutinous and too much concreted Particles drove through the Branches of the small Vessels, are sometimes thrown upon the Glandulous Parts; whence Tumors behind the Ears, and Strumous Effects have their Ori-Sometimes they lie upon the ginal. Carnous Mass, and obstruct its tubulous Fibers. Hence Tumors, the forerunners of Ulcers, take their Original. Sometimes they oftbruct the Pores of the Bones, hence their Rottenness proceeds. Sometimes they get into the Tubes of the musculous Flesh, so that the motion  $F_3$ 

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tus spirituum cruorisque per eos denegetur, unde grangrænæ fphacelusque oriuntur. Medicamenta Interna, hisce morbosis affectibus accommodata, funt incidentia fale volatili gaudentia atque spirituosa, quibus viæ obstructæ referantur, cruor spissus attenuatur, & circulalationi ineptus motu citatiori circumvehitur. Quando Lympha vifcosa horum ope fluiditatem adepta fuit, ex alvo per Phlegmagoga educatur. Externe, præmissis universalibus, Ulceribus detergentia, Acidum temperantia, & infarctos tubulos in Ulcus dehiscentes referantia, quæ fine unguentis farcoticis dictis, totum opus absolvunt, applicentur. Ubi sphacelus Fati imminentis sæpe prænuncius partem aliquam occupavit, illius curationi remediis summe aperientibus incumbendum. Inter quæ Fotus Lixiviales, cum foliis herbarum calidarum incoctis, & Spiritu Vini saturati, Camphora in Spir. Vini rectific. diffoluta,

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of the Blood and Spirits is deny'd through them; from whence Gangrenes and Mortifications are produced. Internal Medicines, accommodated to these morbous Affections, are cutting Medicines, full of a volatile Salt and spirituous Things; by which the obfructed Passages are opened, the thick Blood attenuated, and what is unfit for Circulation, carried about with a swifter motion. When the viscous Lympha is made fluid by the help of these, let it be carried out of the Belly by Purgers of Phlegm. Let there be appplied externally (universals being premis'd) things cleansing Ulcers, attemperating Acids, and opening the stuff'd Tubes that end in the Ulcers, which perform the whole Work without Ointments, called Sarcoticks. Where a Mortification, often the fore-runner of imminent Death, hath possessed any part, we must endeavour its Cure by Remedies mightily opening. Among which Lixivial Fomentations, with the Leaves of hot Herbs boiled therein, and foluta, Tinct. Myrrhæ & Aloes, Vi. tellum Ovi, Terebinth. Ven, Ther. Androm, Spir. Armon. præ cæteris quibuscuuque mihi hactenus notis, principatum obtinent. His enimex arte administratis Hydropicum præter propter septuagesimum agentem annum, cujus crus sphacelo quatuor digitos longo & tres lato obsessim erat, à morte eripui, nec non Melancholium Hydropico coætaneum in quo pollex pedis ex inopia spirituum necrosi tentabatur, (eo præcifo) remediis supra præscriptis, stupentibus Chyrurgis à morte instanti liberavi.

\* XXXXV. Ab eadem quoque caufa fubinde ophthalmia & oculorum
maculæ oriuntur, quorum curatio
plerumque incassum tentatur, donec
intemperies Sanguinis omnino corrigatur. Hac autem correcta Colliriis ex aq. Rosar. Plantag. Trochise.
alb. Rhasis, Vitriol. alb, Melle, &c.
concinnatis, haud difficile fugantur.
Ubi porrigo surfuracea faciei insidet,
cicatrices

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md saturated with Spirit of Wine, Campbire dissolved in restified Spirit of Wine, Tincture of Myrrh and Aloes, the Yolk of an Egg, Venice-Turpentine, Venice-Treacle, Spirit of Sal armoniack, are the chief of all I have yet known. For by these, administred according to Art, I faved from Death an Hydropick Person about Seventy Years of Age, whose Leg pu mortified four Fingers in length, and three in breadth. I also, by the foreprescrib'd Medicines, saved from imminent Death a Melancholick Person, as old, whose great Toe was mortified (cut off) and cured, to the astonishment of the Chyrurgions.

XXXXV. From the same cause Inflamations and spots in the Eyes arise,
whose cure is for the most part attempted in vain, until the Intemperies of the Blood is wholly corrected.
But this being done, they are easily
taken away by Colliriums, compounded of Rose or Plantane Water, with
Troch. alb. Rhasis, white Vitriol and
Honey, &c. Where a Scurf, like Bran,
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cicatrices atque foveas aspectu turpes subinferens, hisce cutis sæditatibus melius consulitur, debitam
humoribus crasin inducendo, quam
universas Linimentorum tribus in
subsidium accersendo. Observatu
denique dignissimum est, nullum
gravem affectum, Variolas excipientem, remanente Sanguinis morbosa diathesi, extirpari posse. Hac
autem radice extirpata, nullus dubito quin Accidentia ab ea germinantia Pharmacis & Regimine jam
præscriptis (Benedicente Deo) optato sunt retrocessura.



FINIS.

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am opfoul to behold, these Blemishes of the Skin are better provided against, by inducing a due Crasis to the Humors, than by the assistance of all the tribe of Linements. And lastly, it is most worthy to be observed, that no grievous Affection following the Small Pox can be extirpated, whilst the morbous disposition of the Blood remains. But that being rooted out, I doubt not but the Accidents springing from thence (with God's Blessing) will recede, according to ones wish, by the Medicines and Government lately prescribed.

THE END.

## The Translator to the Reader.

Aving met with this Treatise of the Small Pox, writ by Dr. Phillips, wherean its Causes and Symptoms are mechanically explained, and a rational Cure accordingly proposed; conceiving that it might be of some advantage to my Neighbours (who are generally once in their Lives troubled with it) to give it an English Dress, I have taken the trouble of Translating it; and to satisfie the Inquisitive that I have done the Author Justice, have Printed the Latin opposite to the

English.

Here any that have the Small Pox may fee their Distemper analitically explained, and by the Prognosticks determine whether they are in danger or no, whether they are prudently treated by their Nurses, and what a vast Risk those People run, who innocently commit themselves to the Government of Women, who commonly treat all their Patients alike; whereas by the foregoing Discourse it's evident, that one Species of this Distemper vastly differs from the other; so that those Medicines which are proper in this Species; are pernicious in that; and the Remedies which are advantagious in this Stage, are noxious in the other. Here is a Cynosura, whereby the Judicious may safely steer their Vessels by those Rocks and Sands, on which the Ignorant Split or Strand theirs.

If any shall receive Benefit from these Labours of mine, the End which I first proposed

will be obtained by

T. E.